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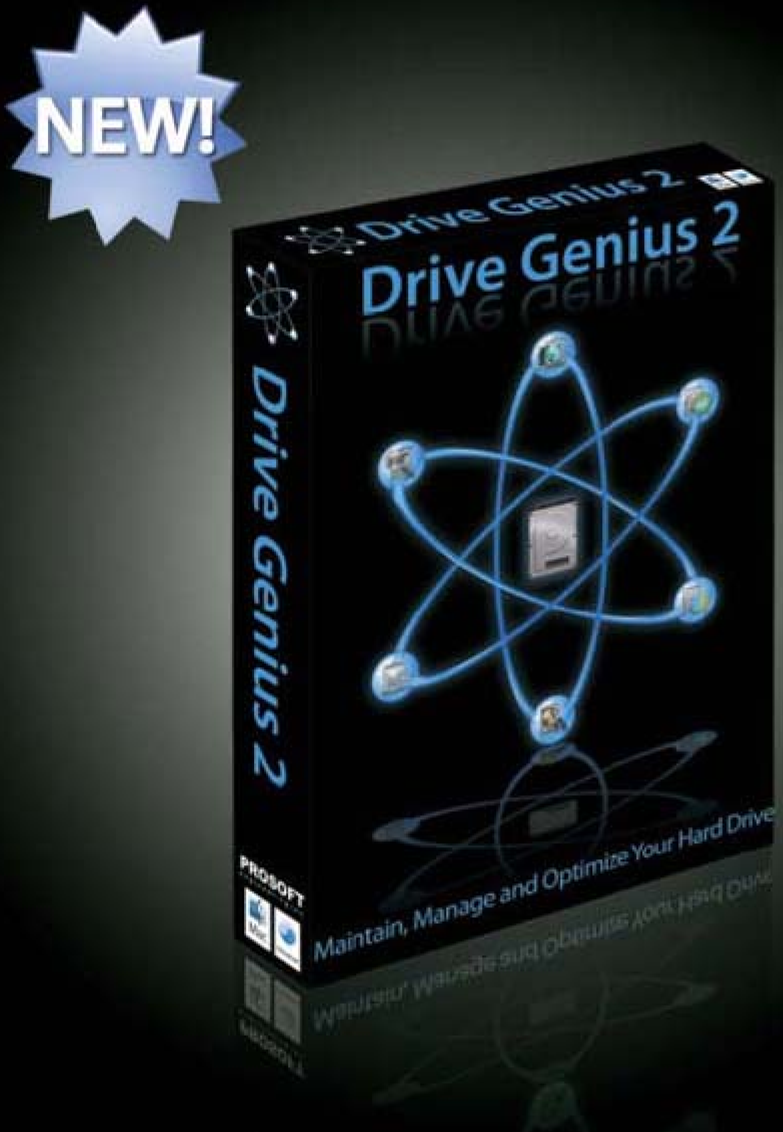
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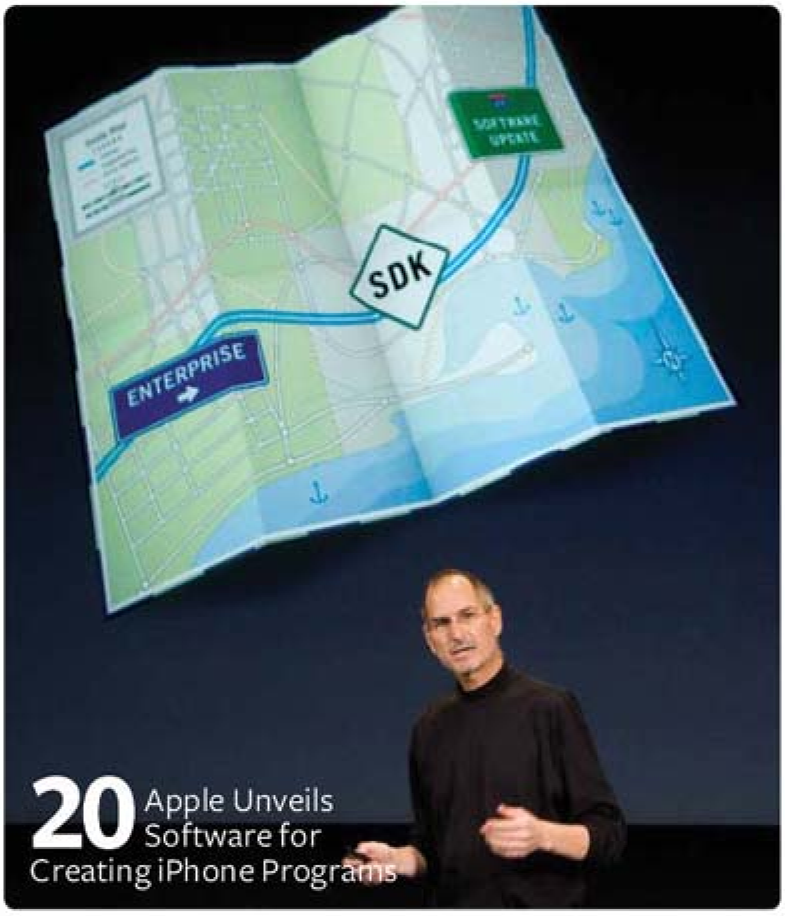

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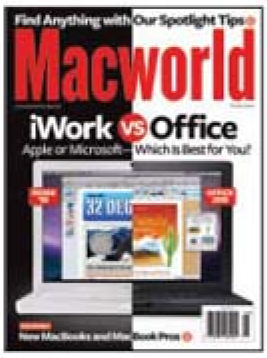
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The top 5 stories on Macworld.com are:

1 **Digital Photo: Master Your Image Library** Jim Heid and Kelly Turner explore hidden powers in iPhoto '08 (macworld.com/3426).

2 **Apple Unveils New MacBook and MacBook Pro** Both sides of Apple's laptop family get an update (macworld.com/3425).

3 **10.5.2 Update Shows Apple Listens to Users** Dan Frakes argues that the latest OS update demonstrates Apple's flexibility (macworld.com/3427).

4 **Hands On with Apple TV, Take Two** Christopher Breen takes a whirlwind tour of the new features in Apple's set-top HDTV box (macworld.com/3428).

5 **Is Time Machine All You Need?** Joe Kissell details how a few significant weaknesses offset Time Machine's impressive strengths (macworld.com/3429).

(Ranking valid as of March 1, 2008.)

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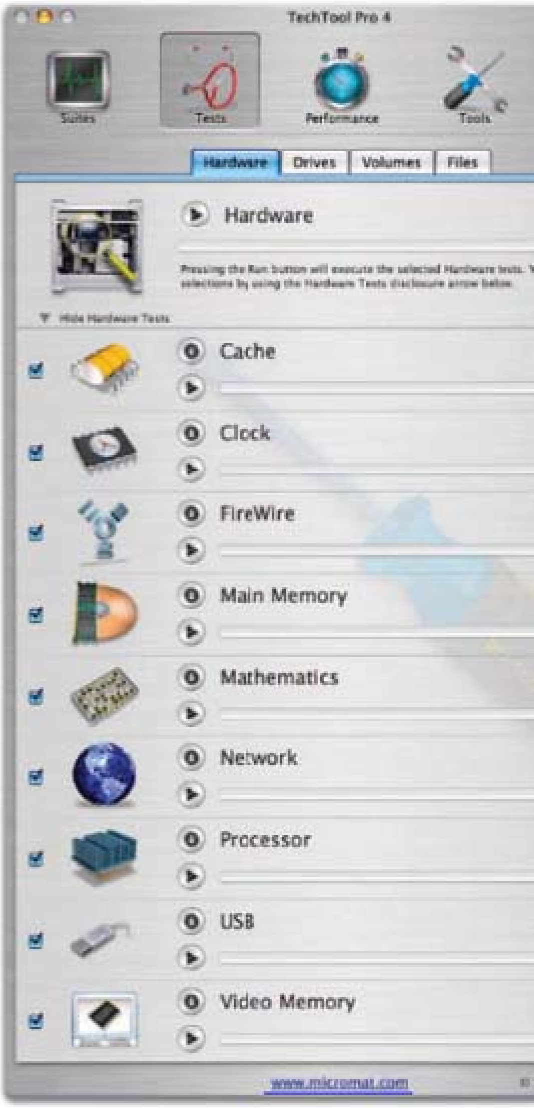
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FROM THE EDITOR'S DESK By Jason Snell

The Golden Goose

Apple won't ever be as big as Microsoft—thank goodness

Let's be honest: Microsoft Office 2008 has generally been viewed by members of the Mac community as a disappointment. After four years of development, the latest version of Microsoft's flagship product arrived earlier this year with native support for Intel processors, a nice collection of formatting tools, and . . . not a whole lot more. In the meantime, Apple's iWork '08 hit the scene. So is the time ripe for Apple to knock Microsoft off its perch when it comes to Mac office software?

'Law & Order' versus 'The Sopranos'?

As this issue's cover story ("The Office Suite Smackdown," page 52) reports, iWork '08 can indeed give Office a run for its money with many everyday tasks. But when you compare Office and iWork, you can also see the state of Microsoft's and Apple's businesses, writ large.

The reason Microsoft's founders are among the richest people in the world is that the company's products, including Windows and Office, are like public utilities. Practically *everyone* uses them. From that fact comes Microsoft's massive money-making machine, but that also makes it very difficult for Microsoft to substantially change its products without risking a huge backlash.

As a result, Office is popular but safe, a workmanlike product that fills every check box on a feature list, but isn't really much different from the Office of a decade ago.

If Microsoft were a TV network, it'd be one of the big broadcast networks, and Office would be a long-running show with broad appeal—let's say *Law & Order* or, if you prefer, *American Idol*. Apple, in contrast, is bold and brash—an HBO or FX. If iWork were a TV show, it would be *The Sopranos* or *The Shield*—a unique product with rough edges and with a specific audience.

PHOTOGRAPH BY PETER BELANGER

If Microsoft were a TV network, Office would be a show with broad appeal—say, 'Law & Order.'

Keeping a base of longtime customers happy is a comfortable trap, one faced by most successful companies, not just Microsoft. And it's a trap that Apple itself may increasingly face. In just a few years, for example, iMovie became so entrenched that when Apple abruptly replaced it with a completely new product, faithful users screamed bloody murder.

Apple hasn't yet been shackled by a Microsoft-size market. But with Apple's fortunes looking the brightest they've been for some time, how long can that last?

Success Is Calling

Which brings us to the iPhone. I was there on the Apple campus in Cupertino when Steve Jobs announced the new iPhone developer kit (see page 20). Beginning in June, that kit will bring an avalanche of new iPhone software.

As I sat there watching developer after developer demonstrate amazing programs they'd written for the iPhone in just a couple of weeks, the thought began to sink in: all this new software is going to make the iPhone *huge;* it will transform the iPhone into a true broadband-connected computer in your pocket.

Of course, Apple faces intense competition in the smart-phone market. But the addition of third-party software, as well as new business-friendly features, will make Apple even more of a leader in the field.

I'm not saying that the iPhone will dominate its market the way the iPod dominates music players. But it's going to be a major player. And that brings us back to the issue of becoming a victim of one's own success.

I don't think today's Apple will get too comfortable with success, nor is it afraid of challenging its customers by changing its products. Apple could have coasted on the iPod's success. But time and again, the company has moved forward, dumping popular products (the iPod mini) so that it can bring out its next great invention (the iPod nano).

This isn't to say that Apple doesn't make mistakes. Though its average is pretty good, not even Apple can get a hit every time at bat—as the Apple TV and, arguably, iMovie '08 prove.

Don't Ever Change

But for Microsoft, it's too late for real change—at least when it comes to Windows and Office. Those products are successful precisely because they don't change. Just consider the current furor over Windows Vista. Mac users upgrade to new versions of OS X in massive numbers, and fast, because they value innovation. Windows users would rather stick with a version that was released the same year as Mac OS X 10.0.

For Apple, the challenge is to succeed while not being afraid to shake things up—to continue to innovate and challenge its users, even if that means the company will never become a Microsoft-style behemoth.

What do you think? Will Apple become a victim of its own success? Have you switched from Office to iWork? Would you? Drop me a line at jason_snell@macworld.com, or stop by our forums at forums.macworld.com.

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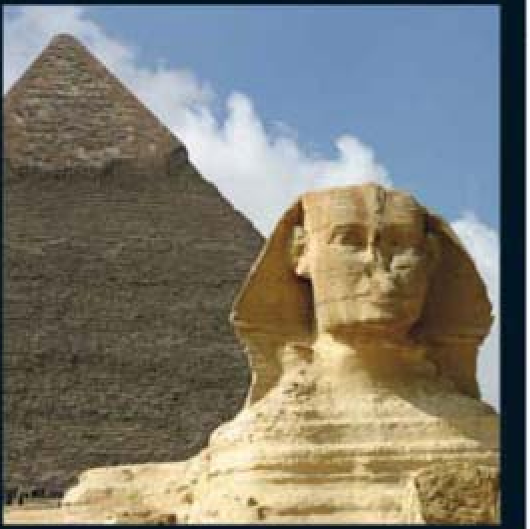

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The Leopard Transition Continues

Incompatible software, the MacBook Air, and tech-savvy elders

DiskWarrior versus Leopard

Based on your mention of Alsoft DiskWarrior 4 as one of your products of the year ("The 23rd Annual Editors' Choice Awards," February 2008), and your review (macworld.com/2503) in which you called it "one of the few programs that every Mac user should own," I bought it. But after running the utility, Photoshop locked up and wouldn't launch. I tried reinstalling Photoshop, but that did nothing. I e-mailed tech support, only to get a terse response that DiskWarrior 4 isn't compatible with OS X 10.5. I ran Leopard's disk utility to repair permissions, but that didn't help. Now not only is Photoshop not working, but my wallpapers are gone; it looks like I have to reinstall Leopard. Why didn't someone warn me that the award-winning DiskWarrior 4 is not ready for Leopard?

✉ **Michael Astle**

HOW TO: SPEED UP YOUR MAC p.100
Macworld
Our Editors Pick the Hottest Hardware & Coolest Software
58 Best Mac Products
REVIEWED
5 Photo Printers

You're right: DiskWarrior 4 was not fully Leopard-compatible; the recently released 4.1 is. However, you can still use version 4 on Leopard volumes; the documentation explains which features work and which ones don't. All that said, Alsoft—and *Macworld*—could have done more to alert users of this incompatibility.—Dan Frakes

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Spinning Down

After reading Mathew Honan's article "Digitize Your Cassettes and LPs" (*Playlist*, February 2008), I decided to give it a try. Unfortunately, one program he recommended, Roxio's CD Spin Doctor, is not stable in Leopard; I think you may have written your article based on an earlier version of the program. Also, Griffin Technology's Final Vinyl doesn't run in OS X 10.5. This information would have been helpful.

✉ **John Erb**

I have used CD Spin Doctor 2.02 extensively to digitize my cassette collection, and your article ignored some of its shortcomings. When finding tracks, Spin Doctor annoyingly starts the track at the beginning of the break between tracks; this frequently means you hear several seconds of silence before the music starts. To fix this, it's necessary to go to the Get Info option to adjust the start time. Also, iTunes will not automatically look up the names of tracks imported from Spin Doctor. To get around this, I export from Spin Doctor to Toast, and then burn the tracks onto a CD-RW. When I mount the CD, iTunes tries to identify the album and tracks.

✉ **Larry Hammer**

As several readers have noted, CD Spin Doctor and Final Vinyl aren't fully compatible with Leopard. Unfortunately, the new version of the Mac OS X operating system shipped between the time I wrote that article and when it appeared in print. As to Larry Hammer's suggestion, that's an interesting technique for getting track names into iTunes, but I think it's easier just to type in the names.—Mathew Honan

Swapping Ink

In February's *macworld.com/reviews*, you said that when using the Epson Stylus Pro 3800, "you will have to swap out the matte and photo-black inks when changing paper types." This is incorrect. The computer tells this printer what kind of paper you are using, and the Epson 3800 switches inks automatically. You do not have to do a thing. Epson solved this ink-swapping issue with the 3800.

✉ **Al Briggs**

You are right. That was an editing error.—Dan Miller

I enjoyed the sidebar in your February printer review comparing compact printers to online services ("Great Pictures, Small Packages"), but the topic deserves more investigation. You could compare the quality of various online services (you mentioned only Snapfish and Mpix, but Kodak Gallery and Shutterfly, and Apple's own iPhoto service, would be excellent candidates), as well as the products they offer (photo books, mouse pads, coasters, and so forth). You might also do a cost analysis of these services

MAGAZINE PHOTOGRAPH BY PETER BELANGER; MACBOOK AIR PHOTOGRAPH COURTESY OF APPLE

versus printers; I find that ink and paper costs make online services much more economical, plus their prints seem to stand up better to the test of time.

Tom French

Obnoxious Apple Ads

Regarding your article about Apple's advertising ("Apple's Ad Game," *Mac Beat*, February 2008), I have to disagree with you about the "Get a Mac" ads. Speaking as a loyal Mac user, I find these ads obnoxious. They're devoid of real information, their only point seems to be to insult PC users, and I believe they turn off as many people as they turn on. As for not showing "computer features . . . in a small space," this statement is absurd: the screens on which most people watch these ads are likely larger than their computer screens.

Richard Klein

Geezers Strike Back

As a self-taught Mac user who's also a grandmother, and who does the troubleshooting and the reinstalling of operating systems on her son's and friends' Macs, I thought Christopher Breen's *Spotlight* article in the February issue ("Why Mom Should Get Leopard") was worth a laugh. I'm not the only lady geezer-tech doing this.

Pam Bishop

The MacBook Air: Your First Look

I am simply baffled by the MacBook Air. Unless you intend to wrap it in a Dolce&Gabbana handbag and use it as an ultramodern Internet device at the spa, the MacBook Air seems beyond useless to me. No battery, no FireWire port, no remote. Does it look great? Sure, but just because it looks great doesn't mean it's worth the money—especially when you consider its extreme limitations.

Roy Steele

Let me get this straight: slower speed, smaller screen, smaller hard drive, and more expensive than a MacBook, all to save a few millimeters in depth? I think I'll keep my MacBook Pro.

Greg Hardy

The MacBook Air is clearly aimed at switchers. Windows users are less likely to have used FireWire devices and may not be as annoyed by the absence of FireWire. Furthermore, Windows subnotebooks are more common devices and make lots of compromises. Many of the same criticisms made against the MacBook Air were also made against the iPhone (older technology, no user-replaceable battery, limited physical connectivity), but that seems to have turned out OK.

Via the Macworld.com Forums

Many people are bent out of shape about the MacBook Air because it isn't for Apple's traditional core market: creative professionals. It isn't meant for Photoshop or Final Cut Studio. It's for folks who travel, work in Office, give presentations on-the-go, and so forth. It's arrogant to think that a product sucks just because it doesn't fit your particular needs.

Rob Colby

How hard is it to understand that the MacBook Air is not designed to be a stand-alone, primary-use laptop? If you have an iMac at home, the MacBook Air is perfect for your portable needs: transfer the files you need for work or school (which will take up much less than 80GB), and go. If you create or save something while you're away, you'll have plenty of disk space for that. When you get home, you transfer what you need to your desktop and keep working there, while the Air charges up for the next day's excursions.

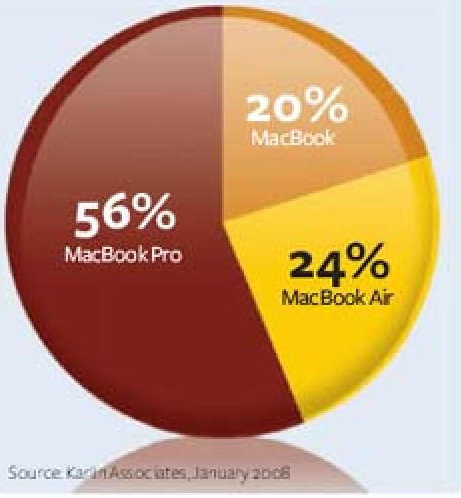
John Scott

I wish people would be more accurate and stop calling the MacBook Air a "subnotebook." It is a thin-and-light notebook, period. The 12-inch PowerBook G4 was a subnotebook; the MacBook Air is nearly 2 inches wider.

Tony Wong

READER **POLL**

If you were going to buy an Apple laptop today, which model would you buy?



Source: Karlin Associates, January 2008

Back to Tiger

Your feature story about Leopard in the January issue ("Leopard Lands") failed to note some important new "features" that may appear when you install OS X 10.5 on a dual-core G5: freezes, crashes, jumpy scrolling, slower Web-page loading, and sluggish application switching. I'm a lifelong Mac loyalist. But upgrading to Leopard on my G5 has not been a step up. I'm digging through the closet for the Tiger install discs so I can switch back.

Adam Segal

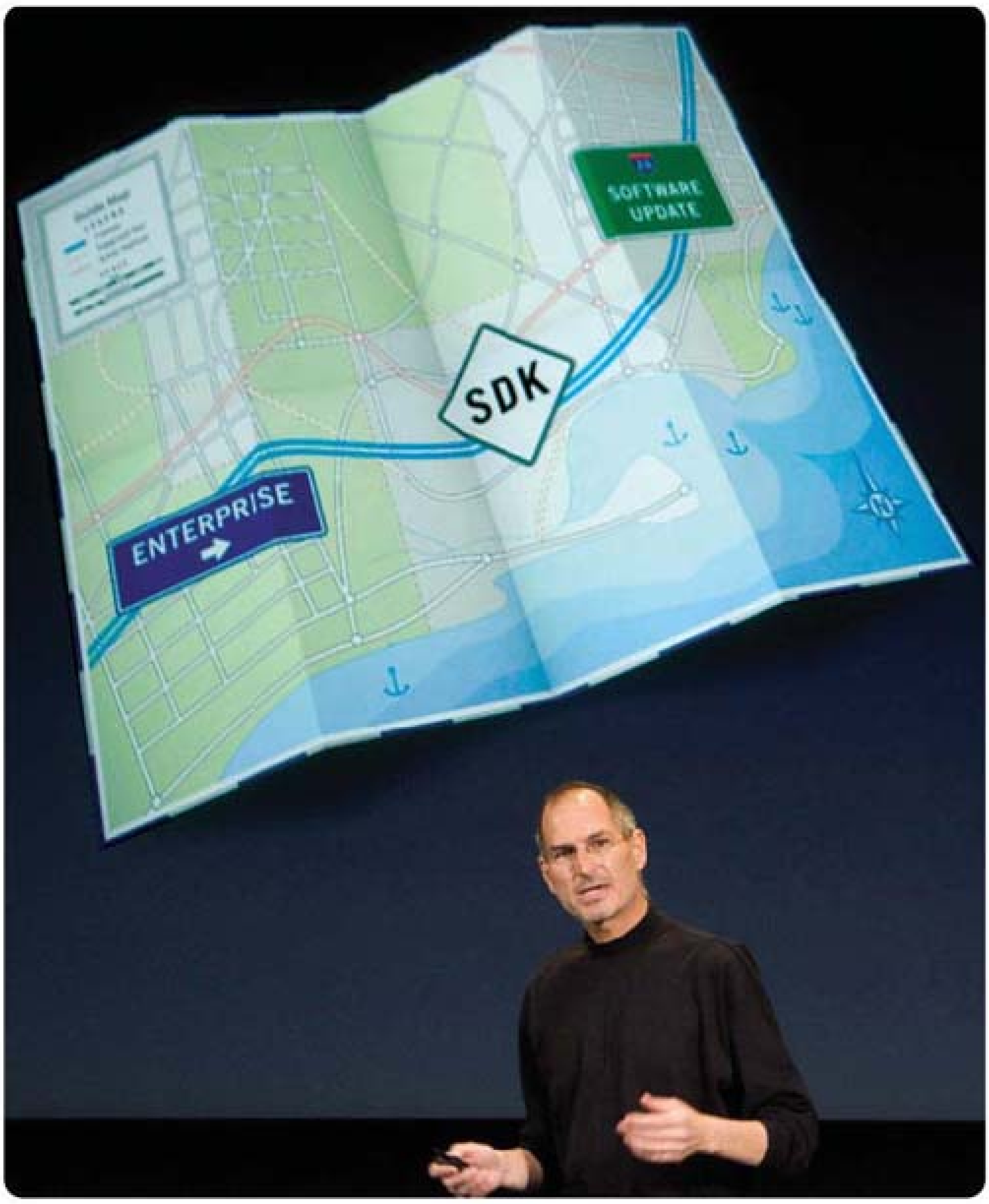
Pronunciation Guide

I notice that the latest *Macworld* consistently refers to Apple's new operating system as OS X 10.5. My question is, how do you pronounce it? I was under the impression that the *X* in OS X was the Roman numeral 10, and that the correct pronunciation was "OS ten." If this is true, then OS X 10.5 should be pronounced "OS ten ten point five." Sounds (and is) kind of redundant. On the other hand, if you say "OS ex ten point five," what does the *ex* refer to? An inquiring mind (and a retired English teacher and editor) wants to know.

John Wilson

"OS ten ten point five" is the correct way to pronounce it.—Dan Miller

Mac Beat



iPHONE

Apple Unveils Software for Creating iPhone Programs

Company also addresses the phone's enterprise-related shortcomings

During a special event in March, Apple took the wraps off the tools and technologies that will let independent software developers create and sell programs for the iPhone and iPod touch. Right now, the software development kit (SDK) is available in a beta version, but a final version of the iPhone software is due in late June.

As a part of the announcement, Apple also introduced a new iPhone program, App Store, through which you'll be able to buy and download iPhone programs. It will be available as part of the new iPhone Software 2.0 update in late June. App Store will let you add third-party applications to your iPhone for the first time, at least via official channels.

iPhone Software

What kind of programs can you expect to see come June? During the event, five companies showed off what they were able to put together with two weeks of engineering work and very few people involved. There were games from Electronic Arts (Spore) and Sega (Super Money Ball), an AIM client from AOL, medical software from Epocrates, and business software from Salesforce.com. The programs took advantage of the iPhone's built-in accelerometer, Multi-Touch capabilities, interface elements, and more. In response to a question, Steve Jobs even said that voice-over-IP programs would be allowed on the iPhone (only via Wi-Fi connections, however, not via cellular data connections).

Although mainstream programs such as games, Internet tools, productivity tools, and the like should be fair game for the iPhone, what's unclear is whether there are portions of the iPhone that are locked off, forbidden locations that no approved third-party program can enter. We do know that third-party software can't access the Dock connector, so companies can't create software that requires specific hardware add-ons.

Creating Software

The free iPhone SDK is a modified version of Apple's Xcode software, which is used to create OS X programs. To get programs listed on the App Store, devel-

PHOTOGRAPH BY DAVID PAUL MORRIS/GETTY IMAGES

opers will need to pay $99 to join the iPhone Developer Program. As part of the arrangement, Apple will take 30 percent of the revenue from any third-party sale on the App Store to cover the costs of storage, bandwidth, and the like—developers offering free software won't have to pay Apple anything other than the program fee. (During the announcement, Jobs said, "We don't intend to make any money off the App Store.")

The tools and technologies will let independent software developers create and sell programs for the iPhone.

App Store

So how will you get programs onto your iPhone? You will access Apple's upcoming App Store—the only place to find and download third-party software—from either the iPhone or iTunes. It works much the same way music purchasing does through the iTunes Store and the iTunes Wi-Fi Music Store on the iPhone and iPod touch. If you buy a piece of software (or download a free application) from the App Store on your iPhone (or iPod touch), your phone will wirelessly download that program and install it. If you download something via iTunes on your Mac or PC, you'll be able to load it onto your iPhone when you sync it with your computer. Apple did not say how the syncing will work, however. For example, will you select certain programs to sync, as you would playlists or podcasts? Will applications downloaded on the iPhone transfer to your computer when you sync?

One of the coolest features of the App Store program is that it will be aware of all the applications you've installed on your iPhone, and automatically check to see if new versions have been released. So instead of having to remind yourself to check for updates, the App Store will automatically remind you and, if you want, download and install the updates. What happens when you want to download an update that you're supposed to pay for? We assume that the App Store will give you an upgrade path and offer to let you buy the new version, but someone will need to write an iPhone app, grow a loyal customer base, and then generate a new for-pay upgrade before we'll know for sure.

Apple will have total control over the software that is available to iPhone users. Although the company didn't say how the approval process will work, it seems likely that Apple will ask developers to follow certain development guidelines and fill out data about what the programs actually do. Since each iPhone program will be digitally signed by its creator, this gives Apple the ability to "turn off the spigot," as Jobs put it, and revoke programs that don't meet its standards.

But we're sure that iPhone software will be given at least a cursory examination by someone at Apple before it's placed on the App Store, with special attention paid to new developers. (And Apple did say that certain types of software will be forbidden—pornography, malicious code, bandwidth hogs, those that compromise privacy, and so on.)

Enterprise Announcements

In addition to its SDK efforts, Apple also announced that it was addressing the complaints of would-be corporate iPhone customers. The biggest news was that the company is licensing Microsoft's ActiveSync technology for secure, push-based e-mail, calendars, and contacts using Exchange servers—a shot across the bow to market-leading Research in Motion, maker of the BlackBerry smart phone. Apple will also provide ways for IT managers to mass-configure multiple iPhones and remotely erase lost or stolen phones, among other things. These updates, which will come to all iPhone users with the 2.0 software update in June, should make the iPhone very attractive to large companies and universities that are concerned about configuration and security. And it's a safe bet that this update will be a big factor in helping Apple reach its goal of selling 10 million iPhones by the end of 2008. ☒

Macworld editors **Christopher Breen**, **Rob Griffiths**, **Dan Moren**, **Jonathan Seff**, and **Jason Snell** contributed to this article.

NEWS IN BRIEF

Apple Tops List of Most Admired Companies

This past March, *Fortune* magazine announced its 26th annual list of "America's Most Admired Companies." This year Apple tops the list, rising six places from its ranking in 2007. Apple beat out Berkshire Hathaway and General Electric for the top slot. The survey respondents chose from a list comprising companies that ranked in the top 25 percent in the 2007 survey, plus those that finished in the top 20 percent in their industry. (See *Tech Trends*, on page 26, for more recent Apple accolades.)

PayPal Says 'Steer Clear of Safari'

If you're using Apple's Safari browser, PayPal has some advice for you: drop it, at least if you want to avoid online fraud. Safari doesn't make PayPal's list of recommended browsers because it doesn't have two important antiphishing security features, according to Michael Barrett, PayPal's chief information security officer. "Apple, unfortunately, is lagging behind what they need to do to protect their customers," says Barrett. "Our recommendation at this point to our customers is use Internet Explorer 7—or 8 when it comes out—or Firefox 2 or Firefox 3, or indeed Opera." Unlike its competitors, Safari has no built-in phishing filter to warn users when they are visiting suspicious Web sites, Barrett says. A second problem is Safari's lack of support for another antiphishing technology, called an Extended Validation (EV) certificate. This is a secure-Web-browsing technology that turns the address bar green when the browser is visiting a legitimate Web site. "I'd love to say that Safari was a safer browser," says Barrett, "but at this point it isn't."

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BUSINESS

How Green Is Apple Today?

The company continues to make progress toward its environmental goals

These days, the environment is both big news and big business. Last year, after an increasingly vocal war of words between Apple and environmental-activist groups such as Greenpeace, Steve Jobs penned a May essay on the company's Web site titled "A Greener Apple," which laid out not only the environmental efforts Apple was making at the time, but also the company's environmental plans for the future.

The plan seemed to address some of Greenpeace's criticisms, bumping up Apple's rating a notch on Greenpeace's grading scale in its "Guide to Greener Electronics." Rick Hind, legislative director of the Greenpeace Toxics Campaign says, "Apple was at a score of four a year ago." Apple has now earned a score of 6.7.

At almost the one-year point since Jobs's missive, here's a look at Apple's progress in the environmental arena.

Getting the Lead Out

In "A Greener Apple," Jobs touted the fact that Apple had phased out CRT monitors, a major source of lead, and had fully transitioned to LCDs, well before its competitors. CRTs aren't the only source of lead in computers, though: on its environmental-product-design Web page (macworld.com/3430), Apple admits that a very small amount of lead can still be found in some of its products. The most recent iMacs, for example, contain less than a gram of lead—undeniably a vast improvement on the 484 grams of the material used in the design of the original iMac G3.

A quick survey of competitors Dell, Hewlett-Packard, and Lenovo shows that all three manufacturers are still making and selling CRT monitors. None of the makers has yet announced plans to eliminate CRTs from its product lineup.

Eliminating Mercury and Arsenic

From the perspective of many Mac users, one of the most interesting tidbits that Jobs let drop in the essay was the news that Apple would be tran-

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sitioning its LCDs from fluorescent to LED backlighting, a process that would, among other benefits, eliminate the use of mercury. "They did lead the way on mercury-free flat screens," says Greenpeace's Hind, who points to that chemical's extreme toxicity.

But according to Jobs, the transition hinged on technical and economic feasibility. The iPhone and all current iPod models use mercury-free displays, but the only Macs using LED backlighting in Apple's lineup are the 15-inch MacBook Pro introduced in June 2007 and the MacBook Air. The most recent MacBook Pro speed bumps offer an LED-backlit display as a build-to-order option on the 17-inch model, but the updated MacBooks released at the same time still use fluorescent backlighting, as do Apple's Cinema Displays and the aluminum iMac. (See our review of the new laptops, page 40.)

Apple also promised to eliminate the use of arsenic in the glass of its LCDs, a promise that so far has been met only by the MacBook Air, though Apple says that it plans to stop using arsenic completely by the end of 2008.

Reducing and Reusing

The final topic Jobs talked about was Apple's recycling program. In 2006, Apple recycled 13 million pounds of e-waste, equivalent to 9.5 percent of the weight of the products they'd sold seven years prior in 1999—a standard of measurement proposed by rival Dell. Jobs set a goal to grow that number to 13 percent in 2007, 20 percent in 2008, and almost 30 percent in 2010, and expand recycling programs to almost all the countries in which Apple products are sold.

Yearly Updates

In closing his essay, Jobs vowed to provide frequent updates on Apple's environmental status—on an annual basis, at a minimum.

Meanwhile, Apple has devoted a prominent section of its Web site to environmental matters and appears to be in the process of revamping the environment section of its newest Macs' technical specifications, making them more prominent and providing a more transparent accounting of each product's environmental facets.

While Apple needs to hit a lot of targets by the end of 2008 in order to keep its promises of environmental progress, the company seems to be on its way to doing so. (For a longer version of this story, go to macworld.com/3473.)—**DAN MOREN**

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3ware Sidecar

BACKUP

AirPort Adds Time Machine Backups

Software updates make good on Apple's promise

In June 2007, Steve Jobs announced that the upcoming Leopard version of OS X would let users attach USB disks to an AirPort Extreme Base Station for use as Time Machine–compatible backup drives. However, by the time the OS shipped, that feature had been removed from Apple's marketing materials (and wasn't found in the OS itself).

When Apple introduced the Time Capsule—a hard drive and 802.11n wireless base station built specifically for Time Machine—in January of this year, many users complained that wireless Time Machine backups hadn't also been added to the AirPort Extreme Base Station as originally promised.

The day before we went to press, Apple released updates to its wireless AirPort Extreme Base Stations and Time Machine software. Although Apple's release notes for those updates didn't mention adding the ability for Time Machine to back up to a USB drive attached to an AirPort Extreme 802.11n Base Station (and Apple couldn't be reached for comment), numerous users reported that the feature had been added, and *Macworld* confirmed those reports in our testing on an AirPort Extreme 802.11n Base Station with Gigabit Ethernet (some users also reported it working with the previous generation of Apple's 802.11n base station).

Although some users reported that their USB drives worked right away, in our testing we found that the external drive needed to be attached to a Mac and either formatted as Mac OS X Extended (Journaled) or verified and repaired first, using Apple's Disk Utility. After that, plug the disk back into the base station's USB port, mount the disk in the Finder, open Time Machine's preference pane, and click on Choose Disk to select and begin using the drive.—JIM DALRYMPLE

CREATIVE NOTES

PhotoGPS

Do you ever find yourself wondering not when you took a particular photo, but *where* you took it? Jobo, the German photographic equipment manufacturer, has been around since the 1920s, and is well known for its photo-processing machines and darkroom accessories. But now it will also be known for something else—GPS.

The company's photoGPS attaches to the flash hot-shoe of any digital camera and records GPS data—a process known as geo-tagging—as you shoot. (If your camera comes equipped with a PC terminal, you can still use an external flash unit.)

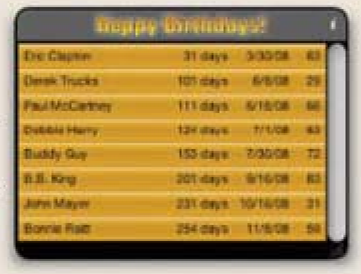
Let's say you've just returned from a European vacation with hundreds of photos from the various countries you visited. Once you're back at your Mac, you download your images and the GPS data file from the USB-enabled Jobo unit. The company's software uses a location database to match the images with the GPS data, and the software adds that location data to your images' EXIF metadata. If you're using Raw-format images, the software will create an XML file that stores the GPS data, which is readable in programs such as Apple's Aperture and Adobe Photoshop Lightroom. You can then search for photos by location without having to tag them.

The company claims that the photoGPS's low power consumption means that it will provide approximately one year of life on a set of batteries. Jobo plans to ship the photoGPS mid-year, for $159 (www.joba.com).

WIDGET OF THE MONTH

Happy Birthdays 1.3

Want a quick and convenient way to see all your contacts' birth dates in Address Book? Oliver Fornio's free Happy Birthdays 1.3 makes remembering anniversaries easier by displaying a list of all upcoming birthdays, along with the number of days until each and the age that each person will turn on that day (macworld.com/3424).—DAN FRAKES



Happy Birthdays!

Eric Clapton	31 days	3/30/08	63
Derek Trucks	101 days	6/8/08	29
Paul McCartney	111 days	6/18/08	66
Debbie Harry	124 days	7/1/08	63
Buddy Guy	153 days	7/30/08	72
B.B. King	201 days	9/16/08	83
John Mayer	231 days	10/16/08	31
Bonnie Raitt	254 days	11/8/08	59

PRODUCT WATCH

HARDWARE

Dualy Extreme, from QuickerTek (www.quickertek.com): Transmitter upgrades AirPort Extreme Base Station with 500 milliwatts or 1 watt of RF power to extend its wireless range ($350 to $495).

Pixma MX7600, from Canon (www.usa.canon.com): All-in-one ink-jet prints 28 black-and-white and 23 color pages per minute and can produce images at up to 4,800 by 1,200 dots per inch ($400).

SlimKey Stand, from Macessity (www.macessity.com): Accessory designed for storing Apple's aluminum keyboard also acts as a stand for an iMac, a Cinema Display, or other displays up to 35 pounds ($40).

SpaceStation, from BlueLounge (www.bluelounge.com): Desk organizer for laptop users conceals cords and features a four-port internal USB 2.0 hub ($80).

TIME CAPSULE PHOTOGRAPH COURTESY OF APPLE

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>
> *- Heather Clancy*
> *ZDNet.com*

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[1] Runtimes may vary depending on load

*Average savings are based on comparable competitive models, and are comprised of two energy saving features: An ultra efficient electrical design, and the master/controlled outlet feature.

SOFTWARE

Microsoft Updates Office 2008

Download improves security, stability

Two months after shipping its Intel-native version of Office for the Mac, Microsoft has released the first update to the office software suite, addressing many problems with the initial version. Improved security in this release fixes vulnerabilities that an attacker can use to take over the contents of your computer's memory. Microsoft also noted that the Office installer no longer grants restricted users unauthorized access to Office 2008 program files.

Office:mac 2008
Microsoft

Microsoft has documented a significant number of fixes in the specific programs included with Office 2008, as well. The company has enhanced stability in Word and Excel, fixing issues that could cause either application to quit unexpectedly. The update also includes a fix for problems with Entourage data synchronization with iCal, Address Book, and mobile devices that sync via iSync or iTunes.

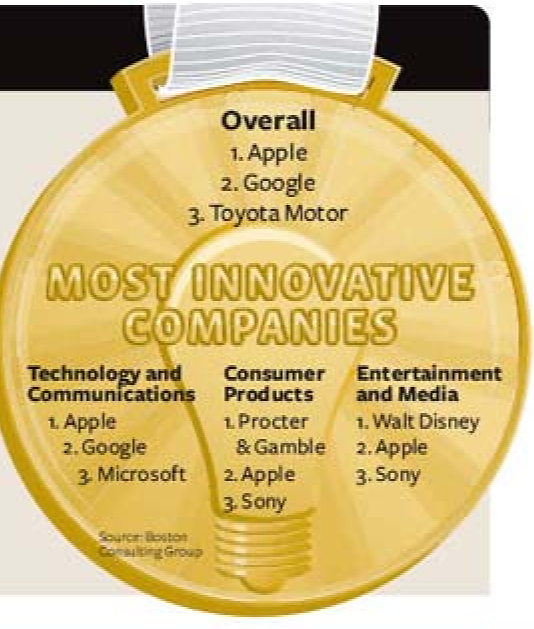
The update improves stability when you use the Database Utility to rebuild a large identity database.

Excel gains enhanced support for secondary displays, improved reliability for ledger sheets, better reliability for copying and pasting linked data and charts, and more. And Word no longer has citation-deletion problems, no longer prints blank packages when printing to a high-resolution printer, and has no more bugs related to opening files created in Word 2007 for Windows (for a complete list of changes go to macworld.com/3455).—**PETER COHEN**

TECH TRENDS

A Reputation for Innovation

A recent global survey of executives ranked Apple the most-innovative company overall in the world. Among just technology companies, Apple also ranked highest, and it ranked second in the subcategories of entertainment companies and consumer-products companies. The author of the study says that being innovative is not just about making the trendiest products: innovative companies also performed better in the stock market and delivered shareholders a greater return.—MARYANN JONES THOMPSON



Source: Boston Consulting Group

INFOGRAPHIC BY CHRIS PHILPOT

PRODUCT WATCH

SOFTWARE

Director 11, from Adobe (www.adobe.com): Multimedia-authoring software adds support for Adobe Flash CS3 Professional and Unicode ($999; upgrade, $299).

Photonic, from Barton Springs Software (www.photonicapp.com): Flickr software helps users browse Flickr and upload new pictures to streams, sets, and groups ($20 for a limited time).

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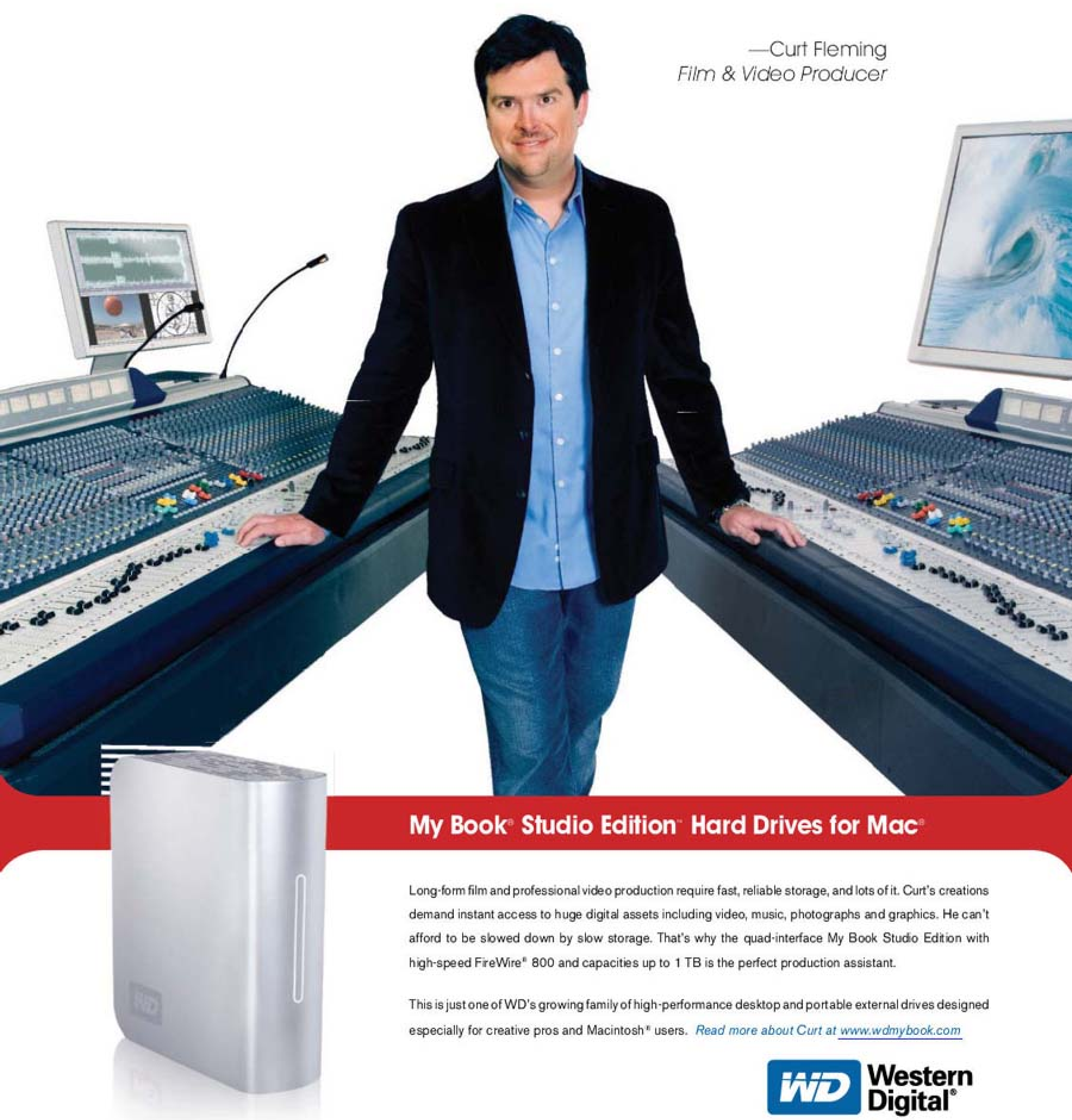

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iTUNES

Apple Is the Number-Two Music Retailer in the United States

The iTunes Store is second only to Wal-Mart

Given Apple's focus on video sales recently, it can be easy to forget that what drives the iTunes Store is music. And the popularity of the iTunes Store has propelled Apple to the number-two spot among music retailers in the United States, following only Wal-Mart, according to market research firm NPD Group. The report from NPD also shows a decrease in CD sales, as younger buyers continue to shun traditional media in greater numbers.

iTunes Store customers have purchased upwards of 4 billion songs since its launch in April 2003—Apple sold 20 million songs on Christmas day in 2007 alone. Boasting the world's largest music catalog, with 6 million songs, Apple has positioned itself to appeal to the growing number of young people who are no longer buying CDs. NPD says that 48 percent of U.S. teens did not purchase a single CD in 2007, compared with 38 percent in 2006. The report estimates that 1 million consumers dropped out of the CD buyer market in 2007.

Legal downloads from online retailers like iTunes now account for 10 percent of the total music acquired in the United States. The number of people buying online music increased by 5 million to 29 million this year over last year. According to NPD, consumers aged 36 to 50 largely drove sales growth.

"The continued growth in legal download sites is encouraging, yet the industry struggles to improve the value of each digital customer," says Russ Crupnick, entertainment industry analyst for NPD. "With so many baby boomers and Gen Xers entering the market, there are certainly opportunities to sell more digital albums, promote older catalog titles, or create bundles that will raise revenues."—**JIM DALRYMPLE**

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PHOTOGRAPH COURTESY OF APPLE

iPOD

Shuffle, iPhone Follow Early iPod Strategy

Lower prices, higher capacity are part of update

Apple's iPod shuffle is a pretty straightforward device, so it stands to reason that the recent shuffle update contained not a single twist or turn. Apple knocked $30 off the price of the 1GB shuffle, which now sells for $49, while rolling out a $69 model that doubles the capacity to 2GB (see this month's *macworld.com/reviews*, page 44). Other than the altered pricing and expanded capacity, you have a feature-for-feature replica of the second-generation shuffle Apple first introduced in the fall of 2006.

So what's the take-away here, other than that if you were mulling the purchase of a shuffle and held out for whatever reason, you're a lucky soul? Two things: Apple really wants to sell some more shuffles; and the cost of adding more flash-based storage isn't prohibitive these days.

Addressing that first point, we saw after Apple released its first 2008 quarterly earnings how important iPod sales figures are to Apple's perceived financial health. So the way to keep those sales rolling, especially in a market that seemingly everyone who's likely to own an iPod has bought several by now, is to introduce new models. That gets tricky for the shuffle, a slimmed-down player whose appeal lies largely in its ability to cram as much music in as tiny a space as possible. So in lieu of adding new features, you can offer two changes—one of which is a lower price, to appeal to the remaining iPod holdouts or to people looking for a low-cost secondary iPod.

The other thing you can do is bolster capacity in a way that doesn't alter the shuffle's appealing 1.62-by-1.07-by-0.41-inch design. And that's where the second point about the cost of adding more flash-based storage comes in. Apple is unlikely to up the capacity on a low-cost item like the shuffle unless it knows it can do so and still maintain a healthy gross margin on each shuffle it sells. Therefore, it's a pretty safe bet that the cost of 2GB flash modules probably works out in Apple's favor.

A similar type of product update occurred when Apple introduced the 16GB iPhone. The higher-capacity version sells for $499, or the same price you would have paid for an 8GB iPhone at the time of its launch. And yet, news of the update was greeted with complaints, mostly centered around the lack of support for 3G wireless networking.

Since Apple seems to be following the same MO it used when rolling out the iPod a little more than six years ago, the next iPhone update should be feature-packed.—**PHILIP MICHAELS**

PRODUCT WATCH

SOFTWARE

Kerio MailServer 6.5, from Kerio Technologies (www.kerio.com): Messaging and calendaring software supports CalDAV, the calendaring standard employed by iCal Server (prices start at $499).

Mouseposé 3, from Boinx Software (www.boinx.com): Cursor-highlighting utility updates its click animation and adds an option that allows mouse clicks to make a sound ($17; upgrade, free).

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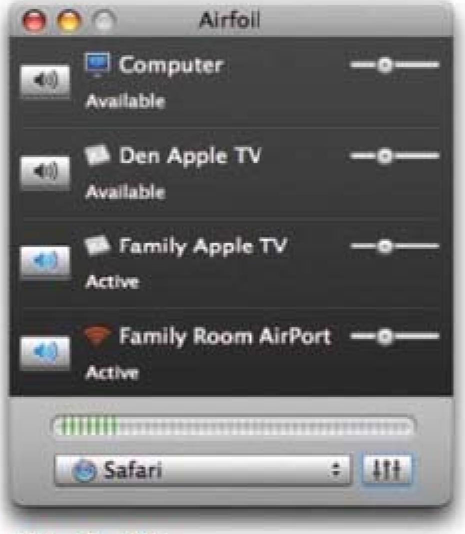
Hot Stuff

What we're raving about this month



Airfoil 3.1

Apple TV's new AirTunes feature lets you broadcast music to the Apple TV directly from iTunes, just as you would with an AirPort Express base station. But what if you need to send more than just iTunes audio? Fortunately, Rogue Amoeba Software has released version 3.1 of the company's $25 Airfoil. The latest software includes complete Apple TV compatibility. No Apple TV or AirPort Express? No problem: Airfoil 3.1 can also send audio to any other computer in your house that's running the free Airfoil Speakers software. And with the included Airfoil Video Player, you can even watch a movie on one Mac and send the sound to your external speakers, all without losing sync (www.rogueamoeba.com).—**DAN POURHADI**

3Dconnexion

3Dconnexion SpaceNavigator

When it comes to navigating 3-D virtual environments, a 2-D mouse won't do; instead, check out 3Dconnexion's $59 SpaceNavigator Personal Edition, a deceptively simple-looking device that offers a versatile array of movements. The intuitive, ergonomic dial makes it easy—and fun—to change your on-screen view: you shift the dial's body off-axis to move the corresponding direction on screen; rotate the dial to turn; tilt the dial to tilt your view; and push the dial down or lift it up—the weighted base keeps the device itself in place—to adjust your elevation. You also get left and right mouse buttons. The SpaceNavigator is ideal for CAD and design programs, and the controller feels as if it were designed specifically with Google Earth in mind—there's simply no better way to navigate Google's virtual world (www.3dconnexion.com).—**DAN FRAKES**

LaunchBar 4.3

If I could have only one Mac utility, it would be the $20 LaunchBar from Objective Development. LaunchBar lets you launch programs, open documents, search the Web, browse your iTunes library, and more, all with a few keystrokes (for a video demonstration of LaunchBar, visit macworld.com/3414). The latest release, LaunchBar 4.3, adds a bunch of new features to help you quickly open files in the program of your choice. When I use a Mac that doesn't have LaunchBar running, I simply feel naked (www.obdev.at).—**JASON SNELL**

Harmony One

One drawback of being a multimedia aficionado—aside from the strain on your wallet—is the multitude of remotes for all your equipment. I've long been a fan of Logitech's Harmony series of remotes, which let you replace your collection with a single, multifunction model. But the new Harmony One Advanced Universal Remote ups the ante with a much-improved ergonomic design and an easy-to-read touch screen. You connect the remote to your Mac and use the (also improved) Logitech software to tell the remote what AV components you have. The remote then configures itself for *activities*: press Watch DVD, for example, and the Harmony One turns on and sets up everything you need to watch a movie; everything else is turned off (www.logitech.com).—**DAN FRAKES**

ScreenFlow

Vara Software's $100 ScreenFlow is a one-stop shop for creating video screen captures—a technique known as *screencasting*. The software lets you simultaneously record your entire screen, capture video from your Mac's iSight camera and audio from its microphone, and record audio and video directly from programs on your computer. ScreenFlow is an ideal choice for anyone who needs to demonstrate a software program or its features from afar. You can use the built-in editing interface to trim your screencast into fighting shape; create call-outs to highlight certain screen elements, such as a window or the cursor; and pan and zoom so that your screencasts look like Ken Burns produced them. It takes a bit of power to run, so check the system requirements (www.varasoftware.com).—**DAN MOREN**

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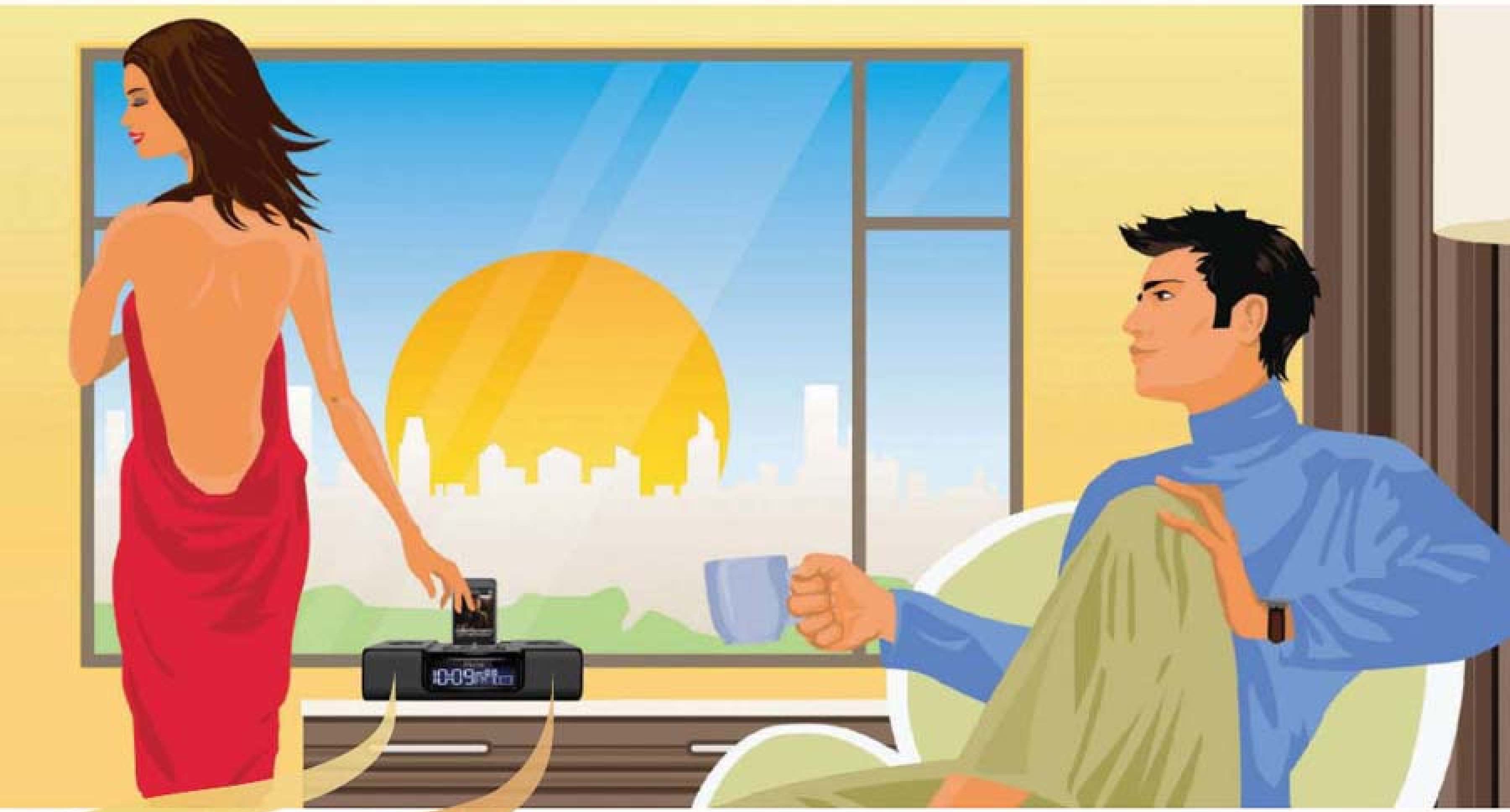

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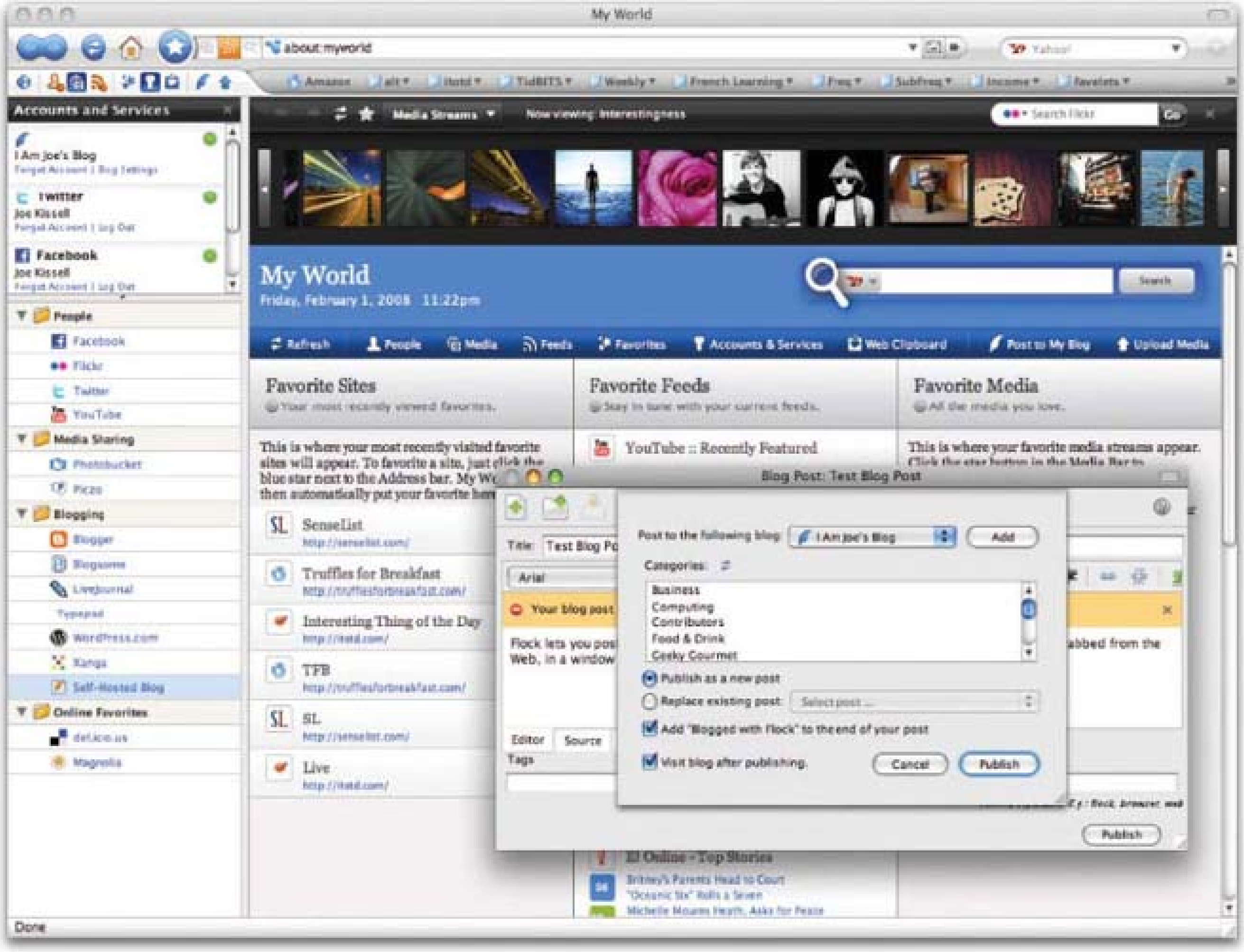
Reviews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The Browser Bunch

Today's Web browsers are talented multitaskers BY JOE KISSELL

It used to be that Web browsers were just that: a way to browse the Web. But the Internet is no longer just a huge online library. It's also a shopping mall, television, workshop, school, and community center. And as the Web has matured, so too have expectations for what a browser should do. Now many people rely on browsers for reading e-mail messages and news feeds, creating spreadsheets, editing photos, watching videos, and doing dozens of other tasks that once required stand-alone software.

So what constitutes a solid Web browser these days? All modern Mac browsers can competently display HTML pages, interactive Flash animations, and QuickTime video. But they should also be able to protect your security and privacy; facilitate your ability to fill out forms; integrate well with your operating system, applications, and various Internet services; provide extensive search capabilities; and allow oodles of customization options to let you conform them to your every whim. And, of course, they should do it with style.

With that in mind, we've taken a fresh look at ten browsers for OS X: Alexander Clauss's iCab 4.0.1; Apple's Safari 3.1; DevonTechnologies' DevonAgent 2.3; Flock's Flock 1.0.3; Mozilla Foundation's Camino 1.5.5, Firefox 2.0.0.12, and SeaMonkey 1.1.8; The Omni Group's OmniWeb 5.6; Opera Software's Opera 9.26; and Shiira Project's Shiira 2.2. All are free except for DevonAgent ($50); iCab, which comes in free and Pro ($25) versions; and OmniWeb ($15). Most have appeared in earlier browser comparison articles (see "Web Browser Roundup," macworld.com/3369), but there are a few newcomers, including Flock, SeaMonkey, and Shiira, as well as DevonAgent, which we reviewed on its own in 2006 (★★★★½; macworld.com/1339). Netscape Navigator and Mozilla, which we've covered previously, are no longer developed or supported. (Browsers are updated frequently, and the versions we review here may have been updated by the time you read this.)

As for testing, we put all of these browsers through their paces and judged them on interface, Web capabilities, and extra features. We informally evaluated performance, but didn't conduct official speed tests. Since so many variables affect a browser's perceived responsiveness, it's difficult—and at times misleading—to try to render performance judgments. Given a broadband Internet connection, all of these browsers were adequately zippy at displaying most sites.

Interface

Apart from that big white space that gets filled with information from the Web, a browser's interface is the first thing you notice. Is it elegant or awkward? Slick and pleasant or crowded and utilitarian? The browsers we tested ran the gamut.

Safari sets the bar high with its simple, usable interface. Most browsers echo Safari's clean look, including Camino, OmniWeb, Shiira, and the newly redesigned iCab. DevonAgent is as minimalist as they come. Then there's SeaMonkey—its unattractive, outdated interface distracts from its otherwise capable feature set.

Tabbed browsing, in one form or another, has been de rigueur on Web browsers for years, and all the programs we reviewed let you display multiple pages sequentially within a single window. OmniWeb continues to stand out for its innovative approach of placing thumbnails or titles (your choice) for each open page in a drawer alongside the window. I prefer this arrangement because it makes better use of vertical space—and it makes finding a page in a sea of open tabs easier. Similarly, Shiira places thumbnails at the bottom of the window, in a horizontally scrolling area called the PageDock. You can hide this pane or switch to conventional tabs. Camino and DevonAgent offer tabs, but they are the only programs that don't let you reorder them via drag and drop.

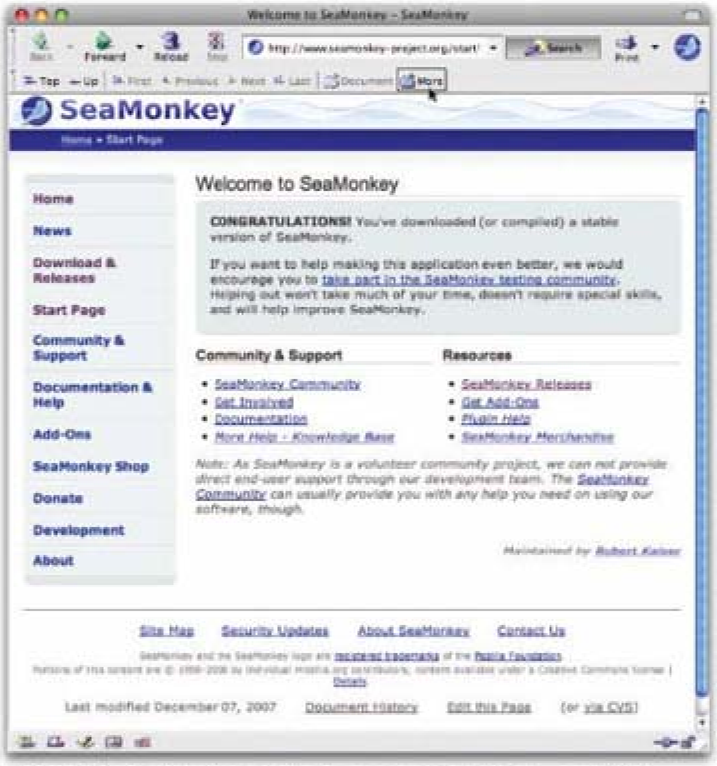
Firefox's Themes and Opera's Skins enable you to change the frame, color, toolbar icons, and other visual attributes of your windows; SeaMonkey also features user-installable themes, though few of them work in OS X (and those that do are of debatable aesthetic merit). Most browsers let you add, remove, and customize toolbars and other window elements, with Opera and Firefox being the most configurable. On the other end, DevonAgent's slim toolbar isn't customizable at all, and SeaMonkey offers just a few trivial options in the Navigator pane of its Preferences window.

Web Browsing

The overwhelming majority of Web pages looked perfectly good in almost every browser we tested, thanks to modern rendering engines, the technology that helps each browser interpret and display Web content. Even though there are more browsers than ever before, most are using the same handful of engines, which makes for greater consistency and compatibility.

Rendering Engines

The ten browsers in our roundup use just three rendering engines. Gecko, a descendant of the engine used in Mozilla, is an open-source renderer that



Welcome to SeaMonkey

CONGRATULATIONS! You've downloaded (or compiled) a stable version of SeaMonkey.

If you want to help making this application even better, we would encourage you to take part in the SeaMonkey testing community. Helping out won't take much of your time, doesn't require special skills, and will help improve SeaMonkey.

Community & Support

- SeaMonkey Community
- Get Involved
- Documentation
- More Help - Knowledge Base

Resources

- SeaMonkey Releases
- Get Add-Ons
- Plugin Help
- SeaMonkey Merchandise

Note: As SeaMonkey is a volunteer community project, we can not provide direct end-user support through our development team. The SeaMonkey Community can usually provide you with any help you need on using our software, though.

Maintained by Robert Kaiser

Last modified December 07, 2007 Document History Edit this Page (or via CVS)

A Retro Look Based on Gecko, the same engine that powers Firefox, SeaMonkey has a look that harks back to the early days of Web browsers.

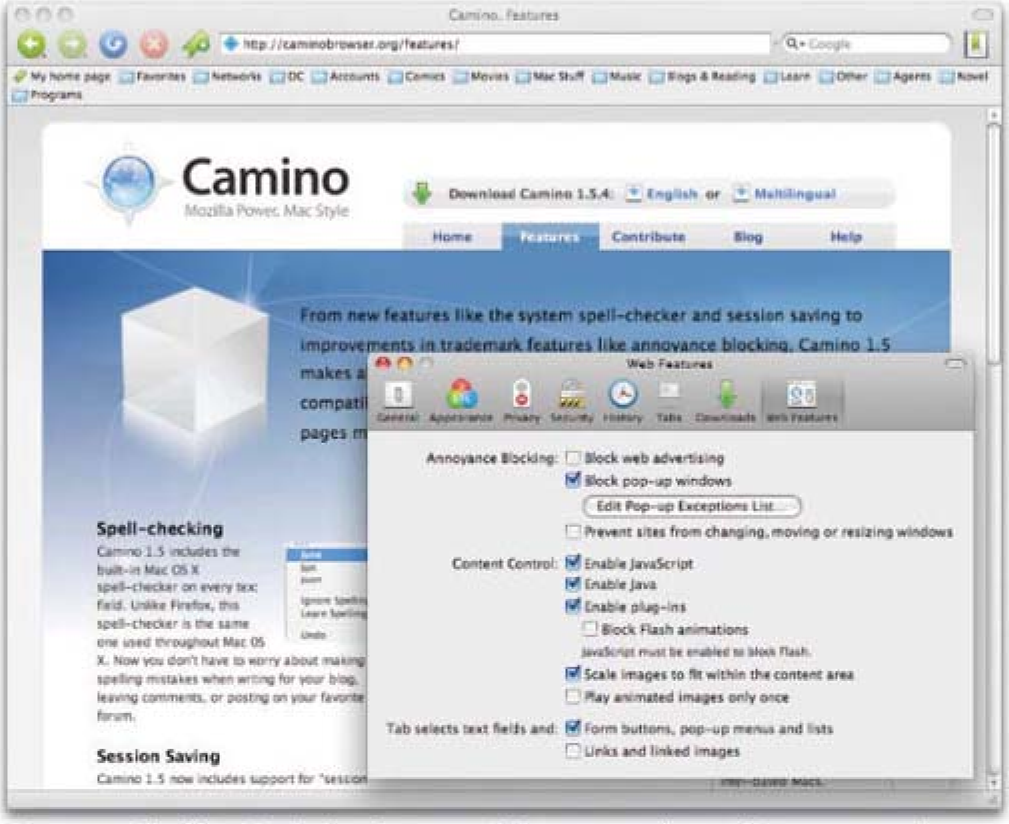
Web Browsers Compared

Product	RATING	PRICE	DRAG-AND-DROP TAB REORDER	THEMES AND SKINS AVAILABLE	RENDERING ENGINE
Camino 1.5.5 Mozilla Foundation	🖱🖱🖱🖱	free	○	○	Gecko
DevonAgent 2.3 DevonTechnologies	🖱🖱🖱½	$50	○	○	WebKit
Firefox 2.0.0.12 Mozilla Foundation	🖱🖱🖱🖱	free	●	●	Gecko
Flock 1.0.3 Flock	🖱🖱🖱🖱½	free	●	○	Gecko
iCab 4.0.1 Alexander Clauss	🖱🖱🖱½	free; Pro edition, $25	●	○	WebKit
OmniWeb 5.6 The Omni Group	🖱🖱🖱🖱½	$15	●	○	WebKit
Opera 9.26 Opera Software	🖱🖱🖱🖱	free	●	●	Presto
Safari 3.1 Apple	🖱🖱🖱🖱½	free	●	○	WebKit
SeaMonkey 1.1.8 Mozilla Foundation	🖱🖱🖱	free	●	●	Gecko
Shiira 2.2 Shiira Project	🖱🖱🖱½	free	●	○	WebKit

● = yes. ○ = no.

powers Camino, Firefox, Flock, and SeaMonkey. Apple's open-source layout engine, WebKit, is used not only in Safari but also in DevonAgent, iCab, OmniWeb, and Shiira. Opera relies on its own engine, Presto.

All things being equal, if two browsers share a rendering engine, Web pages should appear the same in both. However, that's not always the case. For example, one browser might use an older version of an engine, resulting in different behavior. Notably, the forthcoming Firefox 3 will use Gecko 1.9, which fixes numerous deficiencies in the current engine, and it may take time for other Gecko-based browsers to catch up. In addition, some Web developers employ code outside the engine itself that can affect the way pages draw.


Camino, Features
http://caminobrowser.org/features/
Google
My home page
Favorites
Networks
DC
Accounts
Comics
Movies
Mac Stuff
Music
Blogs & Reading
Learn
Other
Agents
Novel
Programs
Camino
Mozilla Power, Mac Style
Download Camino 1.5.4: English or Multilingual
Home
Features
Contribute
Blog
Help
Web Features
General
Appearance
Privacy
Security
History
Tabs
Downloads
Web Features
Edit Pop-up Exceptions List...

From new features like the system spell-checker and session saving to improvements in trademark features like annoyance blocking, Camino 1.5 makes a

compati

pages m

Spell-checking

Camino 1.5 includes the built-in Mac OS X spell-checker on every tex field. Unlike Firefox, this spell-checker is the same one used throughout Mac OS X. Now you don't have to worry about making spelling mistakes when writing for your blog, leaving comments, or posting on your favorite forum.

Session Saving

Camino 1.5 now includes support for "session

Annoyance Blocking: ☐ Block web advertising
☑ Block pop-up windows
☐ Prevent sites from changing, moving or resizing windows

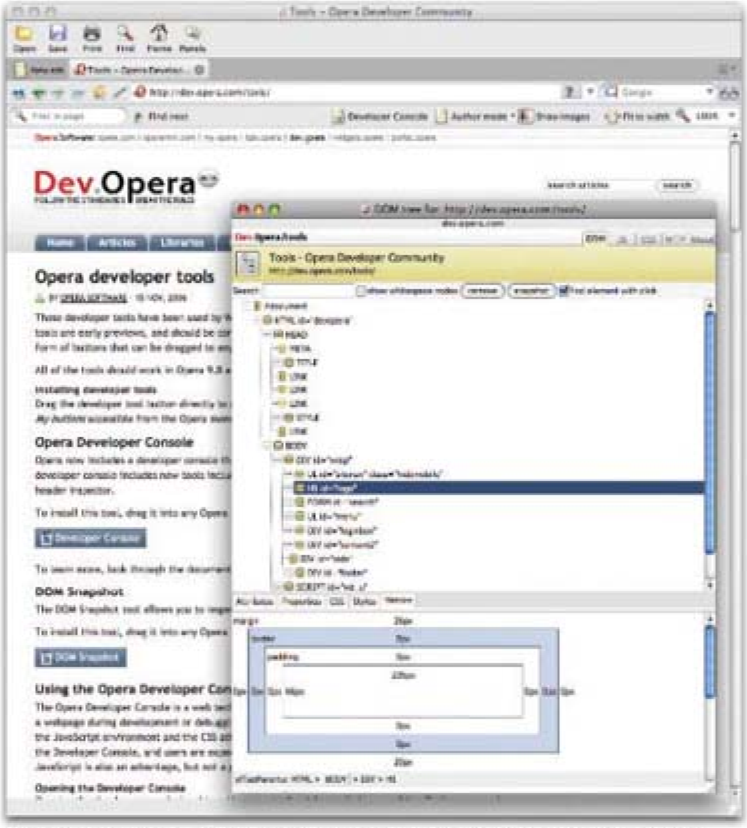
Content Control: ☑ Enable JavaScript
☑ Enable Java
☑ Enable plug-ins
☐ Block Flash animations
JavaScript must be enabled to block Flash.
☑ Scale images to fit within the content area
☐ Play animated images only once

Tab selects text fields and: ☑ Form buttons, pop-up menus and lists
☐ Links and linked images

Annoyance Blocking Camino's preferences make it easy to zap all sorts of Internet aggravations.

Web Standards Testing

The World Wide Web Consortium, or W3C, is the group responsible for setting and developing the standards for HTML, XHTML, and CSS (Cascading Style Sheets), the basic building blocks of Web pages. The W3C is currently working on defining and approving the next generation of standards, including HTML 5 and CSS 3. In theory, each browser should support all currently approved standards, and all Web developers should follow the same rules in writing their pages. If those two things happen, every page ought to look pretty much the same in whatever browser you're using.


Tools - Opera Developer Community
Dev.Opera
Home
Articles
Libraries
Opera developer tools
Opera Developer Console
Developer Console
DOM Snapshot
Using the Opera Developer Con
Tools - Opera Developer Community
margin
border
padding

Developer Tools Opera's Web-development tools provide extensive information about every element on a page, making it easy to tailor pages to your exact needs.

Needless to say, theory doesn't always translate into reality. Some Web developers pay little heed to the W3C's standards, while some browser developers (notably Microsoft) implement their own proprietary alterations to HTML or fail to conform to certain aspects of the specification. It's also becoming increasingly common for sites to use very little conventional HTML and XHTML. Some sites are built almost completely in Flash, while others rely on Java applets, JavaScript, or AJAX (Asynchronous JavaScript and XML) to provide smooth interactivity without requiring constant page reloads (common on so-called Web 2.0 sites). As a result, browsers must be flexible enough to deal not only with new and emerging standards, but also with sites that color outside the lines.

When it came to testing, we chose a wide range of sites intended to identify any serious gaps or flaws in compatibility. To check each browser's adherence to formal and informal Web standards, we looked at sites such as QuirksMode

Camino 1.5.5

🐭🐭🐭🐭

PROS: Loads pages fast; excellent OS X integration; well-designed interface.

CONS: No built-in RSS reader; no add-ons; slow handling of multiple tabs; doesn't fully render some pages.

OS X COMPATIBILITY: 10.3 (Panther), 10.4 (Tiger), 10.5 (Leopard)

PROCESSOR COMPATIBILITY: Universal

PRICE: free

COMPANY: Mozilla Foundation, caminobrowser.org

FULL REVIEW: macworld.com/3401

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(www.quirksmode.org), the Web Standards Project (www.webstandards.org), and css/edge (meyerweb.com/eric/css/edge). To test real-world page-rendering aptitude, we selected sites that feature complex HTML, XHTML, CSS, Flash, and JavaScript content, such as AZCentral Entertainment (www.azcentral.com/ent), Gap (www.gap.com), PressDisplay.com (www.pressdisplay.com), and the New York Times (www.nytimes.com). We also threw in several Web 2.0 sites that rely heavily on AJAX for interactivity, including Google Apps (docs.google.com), Backpack (www.backpackit.com), and PicResize (www.picresize.com).

The result? As expected, all the browsers were easily able to handle nearly every site—with a few minor exceptions. On the Gap site, Camino had a small problem rendering a Quick Look window that opened above a Flash animation. Gecko-based browsers—Camino, Firefox, Flock, and SeaMonkey—got less-than-perfect scores on the ACID2 test at the Web Standards Project site, a particularly demanding test of advanced Web standards (though the Gecko 1.9 engine should fix this problem). And when it came to HTML forms, Opera didn't always display controls such as buttons, pop-up menus, and text-entry fields correctly, though the developer says that it will fix the issue in version 9.5. Opera and all the WebKit-based browsers had trouble with AZCentral's pop-up menu controls. On the whole, though, these annoyances were minor, and few and far between.

Which Browser Is Right for You?

If you're looking for an all-around browser, you can't go wrong with programs like Safari and OmniWeb. But for certain tasks, you may be better served by a browser that's more specialized.

Blogging and Social Networking: Flock If you spend tons of time writing blog entries and using sites like Facebook, Flickr, and Twitter, you'll appreciate Flock's convenient integration with these and many other tools. For instance, you can scan your friends' Facebook updates, see who has commented on your latest Flickr photoset, or submit a blog posting without having to visit the site.

Tinkering: Firefox When it comes to customizability—from tweaking the browser's look-and-feel to adding brand-new capabilities—Firefox is tops. With hundreds of extensions to choose from, you can add everything from Web development tools to fun games like the Quiz Addicts' Toolbar, which displays an ongoing series of trivia questions.

Research: DevonAgent Several browsers offer customizable search engines, but not one comes close to the level of detail offered by DevonAgent. When you need to scour every last corner of the Web for research or for some obscure piece of information, this is the best tool for the job.

Cross-Platform Browsing: Opera Sure, Firefox is available in Mac, Linux, and Windows versions, but Opera will also run on obscure systems like OS/2 and BeOS, and even comes in mobile versions for smart phones such as the Treo and BlackBerry. If you want consistent browsing across all your devices, try Opera.

With all the browsers performing pretty equally in terms of page rendering, how do you actually pick a good one? That's where extras come in. Each browser comes with its own unique set of features, which makes for some striking contrasts in user experience.

Session Management

It's a given that all browsers can store and retrieve bookmarks. All of these browsers also allow you to manually save currently open tabs and/or windows, either by storing bookmarks for all your open tabs at once or by saving a special collection of tab and window settings, often referred to as a *session* or *workspace*. (We were unable to get this working in Shiira.)

Most browsers can also remember open tabs and windows and restore them automatically after you quit and relaunch (or crash). Only Safari and SeaMonkey can't.

Add-On Support

Add-ons let you append brand-new abilities to your browser or alter the behavior

DevonAgent 2.3

●●●½

PROS: Permits highly complex Web searches; summarizes search results; saves workspaces.

CONS: Searches can be quite slow; limited tab features; no bookmark management; no form-filling feature; limited RSS support; bugs.

OS X COMPATIBILITY: 10.3 (Panther), 10.4 (Tiger), 10.5 (Leopard)

PROCESSOR COMPATIBILITY: Universal

PRICE: $50

COMPANY: Devon Technologies, www.devon-technologies.com

FULL REVIEW: macworld.com/3404

Firefox 2.0.0.12

●●●●

PROS: Standards-compliant rendering engine; easily extensible with powerful add-ons.

CONS: Sluggish loading and tabbed browsing; lacks some useful interface features.

OS X COMPATIBILITY: 10.2 (Jaguar), 10.3 (Panther), 10.4 (Tiger), 10.5 (Leopard)

PROCESSOR COMPATIBILITY: Universal

PRICE: free

COMPANY: Mozilla Foundation, www.mozilla.com

FULL REVIEW: macworld.com/3406

Flock 1.0.3

●●●●½

PROS: Allows one-stop management of social-networking and content-sharing sites; tracks RSS feeds; includes tools for easily creating blog entries.

CONS: Interface can get a little crowded; currently lacks MySpace support.

OS X COMPATIBILITY: 10.4 (Tiger), 10.5 (Leopard)

PROCESSOR COMPATIBILITY: Universal

PRICE: free

COMPANY: Flock, www.flock.com

FULL REVIEW: macworld.com/3381

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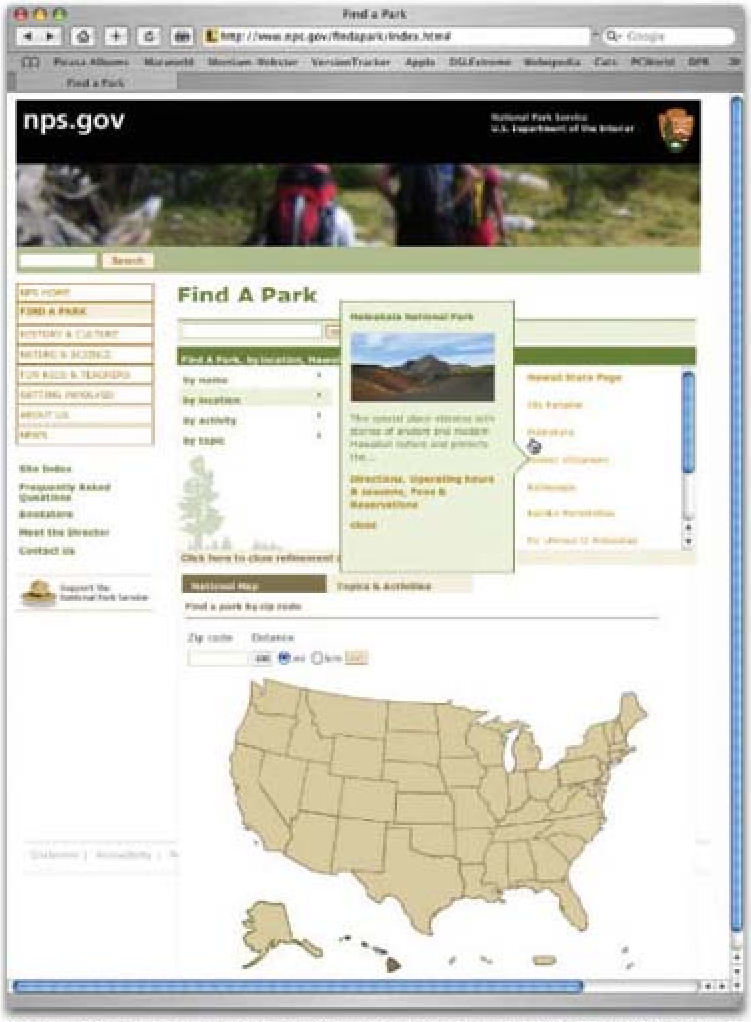

Clean Interface Safari is able to handle some very sophisticated browser tricks, but it never looks cluttered or complicated.

of existing features. Firefox is by far the most extensible browser, thanks to its support for add-ons—from full-featured RSS readers to image-management capabilities (see "Firefox Extensions for Geeks" at macworld.com/3372.)

Opera also supports plug-ins, offering features like advanced bookmark management and cache editing. Flock has a relatively limited set of available add-ons.

Forms and Passwords

Most browsers have some capability to learn form information—name, e-mail address, phone number, mailing address, and so on—as well as user names and passwords for sites.

Safari stores user name and password data in OS X's systemwide Keychain and contact information in Address Book; it can also store additional form data in its own private list. Camino, iCab, OmniWeb, and Shiira also use Keychain for user names and passwords. When it comes to other form data, Camino and OmniWeb can access your own Address Book card. But while OmniWeb lets you add more form fields, which it stores in its own database, Camino does not. iCab also keeps its own list of contact data, though it lacks a learning capability. Shiira is incapable of saving information such as your address and phone number.

Firefox and Flock use their own databases for user names and passwords, as well as for contact information—but you can neither see nor edit the contact lists, which can be quite inconvenient. Opera also stores form data internally, but has the opposite behavior: you can edit contact data but not user names and passwords. SeaMonkey maintains private lists of user names and passwords, as well as form data, and it provides built-in editors for all of this information. Only DevonAgent lacks form-filling features.

Privacy and Security

Every browser here offers some privacy settings, such as the ability to delete cookies, history, cached pages, and other personal data. Security generally refers to settings that prevent potentially malicious Java and JavaScript code from executing without your permission, and that govern the handling of cookies.

The browsers in our roundup take several different approaches to security. DevonAgent, Safari, and Shiira use a simplistic, global approach, providing a private browsing mode that prevents the storage of cookies and personal data on your Mac. iCab, OmniWeb, and Opera let you create detailed policies on how to handle certain types of content in every domain you visit. Camino, Firefox, Flock, and SeaMonkey provide a happy medium: they give you finer control than Safari (such as the ability to allow or block

iCab 4.0.1

●●●½

PROS: Clean interface; tabbed browsing; stores sessions; remembers open windows and tabs when you quit; site-specific filtering.

CONS: Limited form-filling capabilities; lacks RSS support; no documentation; constant reminders to upgrade to paid version.

OS X COMPATIBILITY: 10.3 (Panther), 10.4 (Tiger), 10.5 (Leopard)

PROCESSOR COMPATIBILITY: Universal

PRICE: free; Pro edition, $25

COMPANY: Alexander Clauss, www.icab.de

FULL REVIEW: macworld.com/3403

OmniWeb 5.6

●●●●½

PROS: Shows thumbnails of open pages; remembers open tabs and windows; stores workspaces; checks bookmarks for changes; site-specific filtering and preferences; HTML-editing capabilities.

CONS: Weak RSS support.

OS X COMPATIBILITY: 10.3 (Panther), 10.4 (Tiger)

PROCESSOR COMPATIBILITY: Universal

PRICE: $15

COMPANY: The Omni Group, www.omnigroup.com

FULL REVIEW: macworld.com/3402

Opera 9.26

●●●●

PROS: Built-in e-mail client and RSS reader; site-specific filtering; stores sessions; remembers tabs and windows.

CONS: Rendering glitches with HTML form controls; poor management of stored form data; a few bugs.

OS X COMPATIBILITY: 10.3 (Panther), 10.4 (Tiger), 10.5 (Leopard)

PROCESSOR COMPATIBILITY: Universal

PRICE: free

COMPANY: Opera Software, www.opera.com

FULL REVIEW: macworld.com/3405

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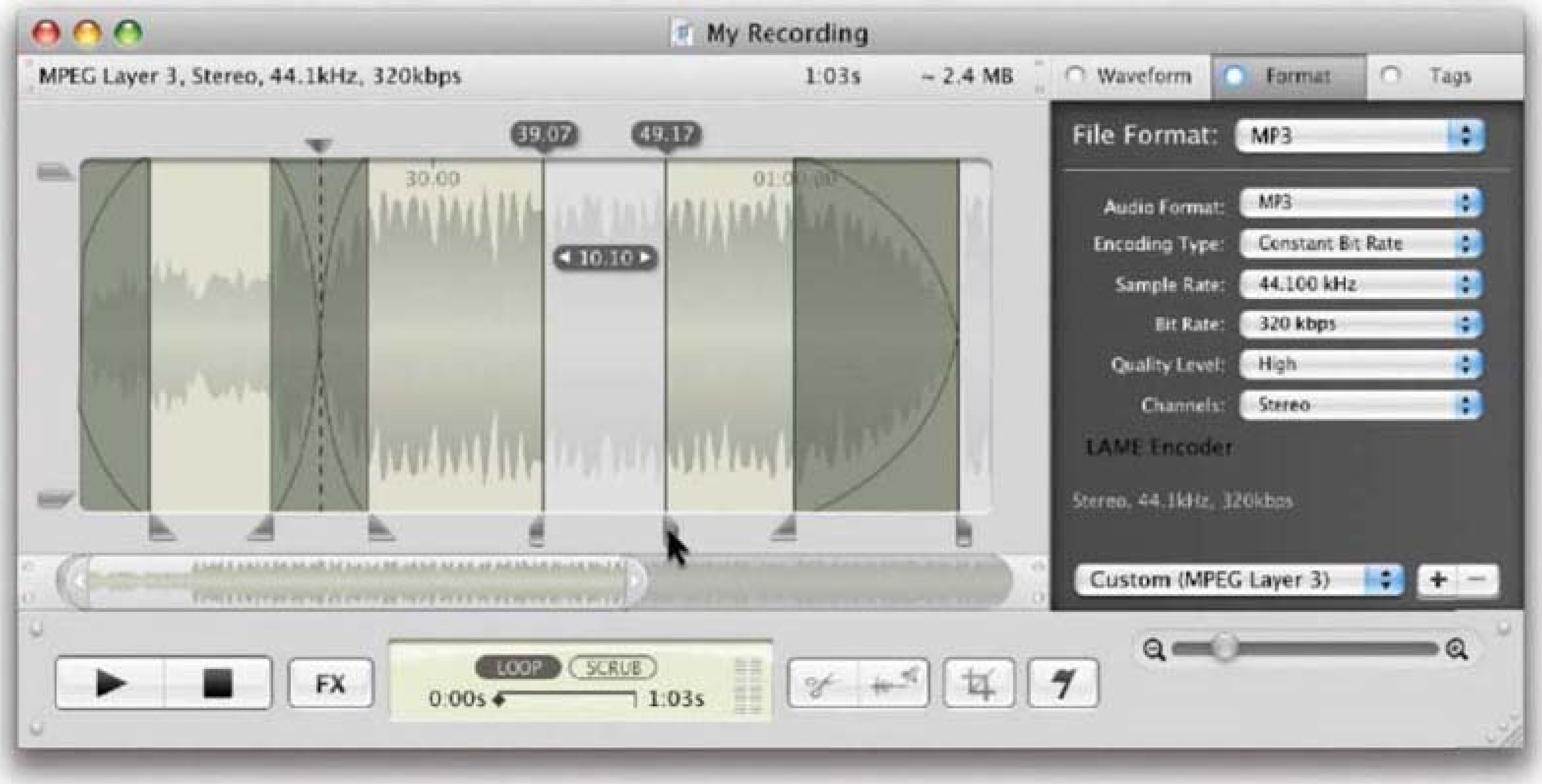

MPEG Layer 3, Stereo, 44.1kHz, 320kbps 1:03s ~ 2.4 MB

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Audio Format: MP3
Encoding Type: Constant Bit Rate
Sample Rate: 44.100 kHz
Bit Rate: 320 kbps
Quality Level: High
Channels: Stereo

LAME Encoder

Stereo, 44.1kHz, 320kbps

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the Mac Observer
EDITORS CHOICE AWARD
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WireTap Studio
I'd Tap That!

Macworld
4½

2007
winner
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pop-up windows for any given domain), but they don't bog you down with complicated options.

Search Fields

Nearly every browser toolbar includes a search field. In Camino and Safari, the search function is tied to Google. SeaMonkey and Shiira let you choose from several preconfigured search engines. DevonAgent is the standout, with a separate window that allows you to survey dozens of different search engines at the same time. Not only can you specify detailed search criteria, but results come with summaries, and are organized by related topics.

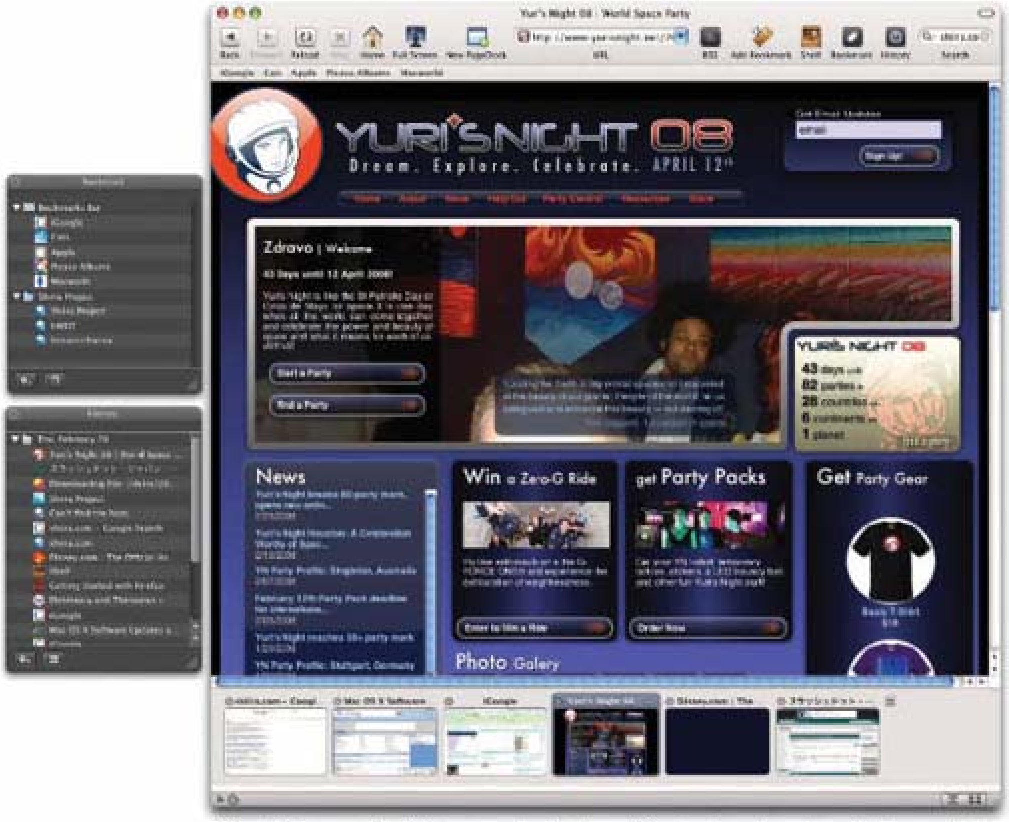
RSS and Blogging

These browsers offer a staggering range of additional features.

Flock offers the most impressive RSS implementation. By displaying subscribed RSS feeds in the window's sidebar, Flock allows you to quickly switch between headlines, excerpts, and full text (if available); mark entries as read; save entries for later reference; or easily create a blog entry from an RSS post. Opera's RSS support is also solid: you can mark stories as read, assign labels (such as Important or Funny), and sort posts according to various criteria. Safari has a passable though uninspired RSS reader.

Although you can use any Web browser to write blog entries, Flock has the distinction of being able to communicate directly with many blogging platforms, allowing you to construct a post without having to visit the site. It also integrates nicely with other popular Web services, such as Flickr, YouTube, and del.icio.us.

Safari also deserves a special mention here because it adds support for text-styling controls in services like Blogger and, on any Web form with a *textarea* control (a multiple-line editable text box), Safari makes the control resizable—something iCab also does.



Visual Approach Shiira uses visual tabs and floating bookmark and history palettes.

Macworld's Buying Advice

Apple's Safari emerged as a clear favorite, with its excellent standards support, its friendly user interface, and all the capabilities most people will need. If you want a more flexible browser, the Mozilla Foundation's Firefox offers innumerable extensions and themes. Another good option is The Omni Group's OmniWeb, which has an intelligent and attractive interface, a built-in HTML editor, and more-detailed control over privacy and security than Safari. ☒

Joe Kissell is the senior editor of TidBits and the author of numerous e-books about Mac OS X (www.takecontrolbooks.com).

Safari 3.1

●●●● ½

OUR PICK

PROS: Fast; excellent integration with .Mac and other Mac applications; intuitive interface; fully compliant with Web standards.

CONS: Lacks customization options; no add-ons.

PROCESSOR COMPATIBILITY: Universal

OS COMPATIBILITY: 10.4 (Tiger), 10.5 (Leopard)

PRICE: free

COMPANY: Apple, www.apple.com

FULL REVIEW: macworld.com/3475

SeaMonkey 1.1.8

●●●

PROS: Superb implementation of Gecko engine; integrated Web, e-mail, HTML editing, and IRC features.

CONS: Buggy; outdated, unappealing interface; little or no OS X integration.

OS X COMPATIBILITY: 10.3 (Panther), 10.4 (Tiger), 10.5 (Leopard)

PROCESSOR COMPATIBILITY: Universal

PRICE: free

COMPANY: Mozilla Foundation, www.seamonkey-project.org

FULL REVIEW: macworld.com/3400

Shiira 2.2

●●● ½

PROS: Full-screen mode; intuitive and customizable interface; visual preview tabs; good Web development tools; fully compliant with Web standards.

CONS: Interface still has rough edges; buggy bookmarking feature.

PROCESSOR COMPATIBILITY: Universal

OS X COMPATIBILITY: 10.4 (Tiger), 10.5 (Leopard)

PRICE: free

COMPANY: Shiira Project, shiira.jp/en.php

FULL REVIEW: macworld.com/3399

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More Than a Speed Bump

New processor makes for faster MacBooks, MacBook Pros

The new MacBooks and MacBook Pros might seem like minor speed bumps compared with the previous generation, but they're more than that: these are the first Macs to use the speedy new 45-nanometer (Penryn) version of Intel's Core 2 Duo chip.

MacBook Pro

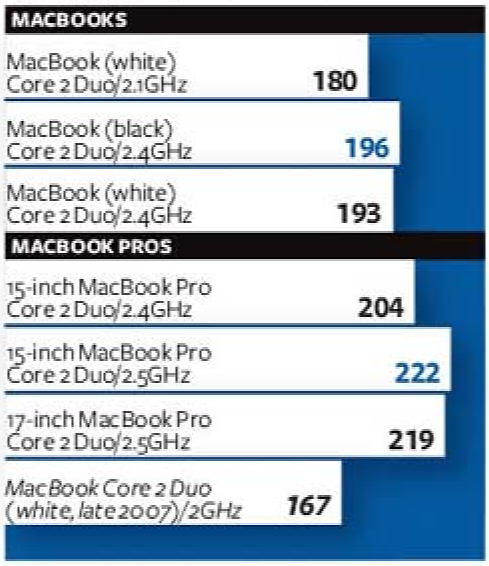
The new MacBook Pros come in three configurations: a 15-inch 2.4GHz model, a 15-inch 2.5GHz model, and a 17-inch 2.5GHz model. They have the same prices—$1,999, $2,499, and $2,799, respectively—as the models they replace.

In our testing, the two new 2.5GHz MacBook Pros achieved the best-ever scores for laptops in our Speedmark 5 tests. The low-end MacBook Pro was 10 percent faster overall than the previous low-end model.

We also found these new MacBook Pros pretty snappy in some less scientific testing: startup time was about 25 seconds, Photoshop CS3 launched in about 8 seconds, and Safari and iCal each opened almost immediately.

Macworld Lab Test

Speedmark 5 Test Results



Longer is better. Best score per model is in blue. Reference system is in italics. Speedmark 5 scores are relative to those of a 1.5GHz Core Solo Mac mini, which is assigned a score of 100. All systems were running Mac OS X 10.5.2 with 2GB of RAM.—MACWORLD LAB TESTING BY BRIAN CHEN, JAMES GALBRAITH, AND JERRY JUNG

For complete benchmarks, visit macworld.com/3476 (MacBook) and macworld.com/3474 (MacBook Pro).

At the same time, battery performance is better: the 15-inch 2.5GHz MacBook Pro's improved on that of the previous model by about 21 percent—2 hours and 55 minutes, compared with 2 hours and 25 minutes for the old 2.2GHz model. The new 17-inch model's battery life was less impressive but still an improvement: 5 percent better than the old 2.4GHz model.

Beyond the new chips, the changes are minor: The 2.4GHz system comes with a 200GB hard drive, up from 120GB in the previous low-end model. The two 2.5GHz MacBook Pros offer 250GB of storage, up from 160GB. Their trackpads now support Multi-Touch hand gestures.

MacBook

The new MacBooks come in three configurations—a white 2.1GHz model ($1,099), a white 2.4GHz model ($1,299), and a black 2.4GHz model ($1,499)—that, like the new MacBook Pros, sport the 45-nanometer Core 2 Duo chip.

As with the MacBook Pros, those chips produced moderate-to-impressive performance gains. For example, the black 2.4GHz MacBook scored more than 9 percent higher overall than its 2.2GHz predecessor. The 2.1GHz MacBook showed an almost 8 percent improvement on the 2GHz MacBook it replaces.

As before, the only difference between the white MacBook and the black MacBook beyond price and color is the black model's larger hard drive. The MacBook line as a whole gets a storage boost, from 80GB, 120GB, and 160GB to 120GB, 160GB, and 250GB, respectively. Unlike with the MacBook Pros, the trackpad doesn't support Multi-Touch hand gestures.

MacBooks

●●●● **2.1GHz**
●●●●½ **2.4GHz**

PRICE: 2.1GHz, $1,099; white 2.4GHz, $1,299; black 2.4GHz, $1,499

COMPANY: Apple, www.apple.com

FULL REVIEW: macworld.com/3452

MacBook Pros

●●●●½ **15-inch 2.4GHz**
●●●●½ **15-inch 2.5GHz**
●●●●½ **17-inch 2.5GHz**

PRICE: 15-inch 2.4GHz, $1,999; 15-inch 2.5GHz, $2,499; 17-inch 2.5GHz, $2,799

COMPANY: Apple, www.apple.com

FULL REVIEW: macworld.com/3453

Macworld's Buying Advice

If you've been waiting to buy a new Apple laptop, wait no longer. The new MacBook Pros are Apple's speediest laptops ever. And the new MacBooks represent progress over the old; owners of PowerBooks and first-generation MacBooks will see substantial improvement. ☒

Reviews are by *Macworld* Senior Editors **Jackie Dove** and **Jonathan Seff**.

PHOTOGRAPHY COURTESY OF APPLE

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Apple TV, Take Two

Second time's mostly a charm for Apple's set-top box

BY CHRISTOPHER BREEN

The first version of Apple's set-top media box, the Apple TV, made a promising debut. But ultimately, it lacked the simplicity that consumers expected from a living-room technology. Additionally, it failed to take advantage of big-screen TVs and their accompanying bone-shaking audio systems by making it difficult to watch HD content and impossible to listen to surround sound. Not only did users have to accept these compromises, but they also had to understand the syncing-and-streaming relationship between the Apple TV and a network of computers scattered about the house. Beyond that, there remained the puzzle of getting content you owned onto the box.

With "take two" of the Apple TV, Apple tackles these issues, via a software update for existing users, and it has repriced the set-top box for new customers. The changes should not only please current users who download the software update, but also cause holdouts to give the device a second look.

Tighter Interface

The Apple TV interface of old owed a debt of gratitude to the iPod's hierarchical interface. You'd select a media type—Music or Movies, for example—and move through a series of cascading screens to issue commands. The new Apple TV interface requires fewer of these screens, thanks to its split-pane nature. Media types such as Movies, TV Shows, and Music appear on the left side of the pane, and the commands associated with the selected heading appear on the right.

You'll find media nicely organized. When you select My Music or Shared Music, for example, you can view music by Playlists, Albums, Artists, Songs, Genres, Composers, or Audiobooks. You can organize TV Shows by Date or Show; when you view by Show, the Apple TV uses the Season and Episode tags assigned to each of the show's episodes to organize them first by season and then by episode number.

One area where the interface could use some improvement is with searching the libraries of attached computers. Currently, the Apple TV allows you to search the iTunes Store for music, movies, TV shows, and podcasts, but you can't search the Apple TV's hard drive or the iTunes libraries of synced and streaming computers. If you haven't organized your music into playlists within iTunes and you're trying to weed through a large music library on a synced or streaming computer, you're going to find it slow going. You'll have to start at the top of an Artists list, hold down the Apple Remote's down button, and wait, wait, wait while the alphabetical list of artists flies by so that you can eventually select an artist whose first name begins with a letter far back in the alphabet.

Apple TV

●●●●

PROS: Improved interface; HD movie rentals; Dolby Digital 5.1 surround-sound support; can be used without a computer; AirTunes support; ability to stream .Mac Web Galleries and Flickr albums.

CONS: New software not as stable as previous software; no music-video shuffle; 24-hour rental period too short; won't let you directly subscribe to TV shows or podcasts; playback of HD movies and trailers can be interrupted by rebuffering during downloading; no local music search.

PRICE: 40GB, $229; 160GB, $329

COMPANY: Apple, www.apple.com

FULL REVIEW: macworld.com/3454

You Oughta Be in Pictures

New to the Apple TV with the "take two" software update is the ability to stream pictures from a .Mac Web Gallery or a Flickr album. Accessing this material couldn't be much easier. For a .Mac Gallery, you simply use the Apple Remote and the Apple TV's on-screen keyboard to enter a .Mac member's name. Any public .Mac Web Galleries published by that member will be available on your Apple TV. Flickr works similarly: you just enter a Flickr user's member name, and you can stream that user's public images to your Apple TV. Additionally, you can look at that member's contacts and add them to your Apple TV's list of Flickr members.

In my tests with an Apple TV connected over an 802.11n wireless network, both the contents of friends' .Mac Web Galleries and Flickr albums appeared in well under a minute. Generally the pictures looked good, though low-resolution images had jagged edges, just as they would when blown up on a computer monitor.

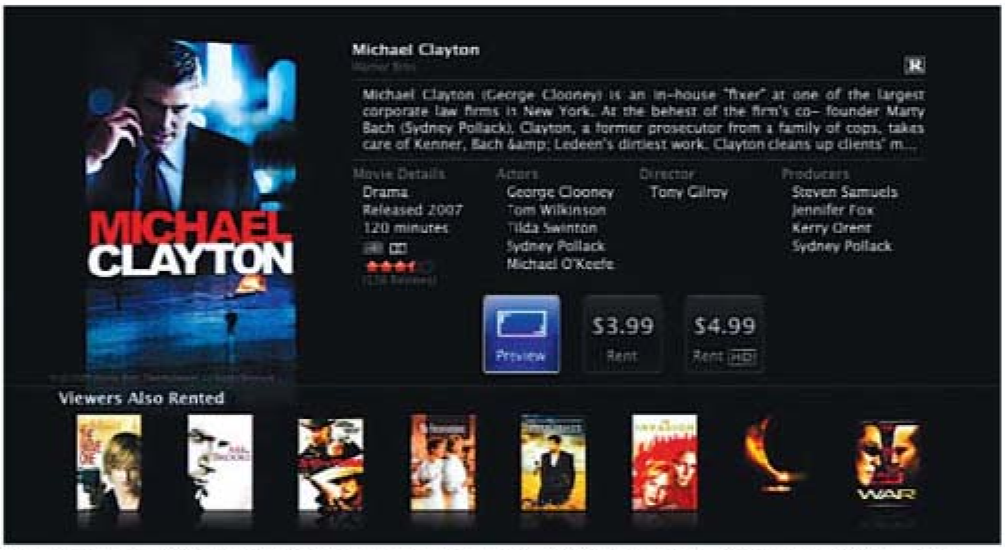
Content Is King

It is no minor matter that Apple now lets you download movie rentals directly to the Apple TV. And Apple has done a reasonably good job of managing the mechanics of downloading movies and purchasing TV shows and music. It's easy enough to find movies, preview them, and rent what you like, though the current selection is limited. Still, the process is not seamless.

PHOTOGRAPH BY PETER BELANGER

As video downloads from the iTunes Store to the Apple TV, the device calculates when it believes it can start playing the material without interruption and then presents a notice when it reaches that point. My Apple TV performed this task admirably with TV shows I bought and standard definition movies I rented. With the Apple TV connected to my router via an Ethernet cable, HD-movie downloads weren't quite as successful. I'd start playing an HD movie immediately after the notice appeared, but partway through the movie, playback would stop so that the Apple TV could rebuffer the stream. When I waited about ten minutes or so, the rebuffering disruptions vanished. With a speedier broadband connection than the 3 to 4 Mbps my DSL service provides, I likely wouldn't have experienced those interruptions.

Such interruptions become more significant when you attempt to watch a movie, give up when you see the rebuffering errors, and then resign yourself to waiting until later in the day to try watching the movie again, once it's fully downloaded. You have just 24 hours to watch a movie once you start playing it. When the allotted time runs out, the movie is automatically deleted from the Apple TV. If you've failed to take into account your first aborted attempt to watch your movie, you may be in for a rude surprise when, 25 hours later, your movie is missing in action.



Michael Clayton

Michael Clayton (George Clooney) is an in-house "fixer" at one of the largest corporate law firms in New York. At the behest of the firm's co- founder Marty Bach (Sydney Pollack), Clayton, a former prosecutor from a family of cops, takes care of Kenner, Bach &amp; Ledeen's dirtiest work. Clayton cleans up clients' m...

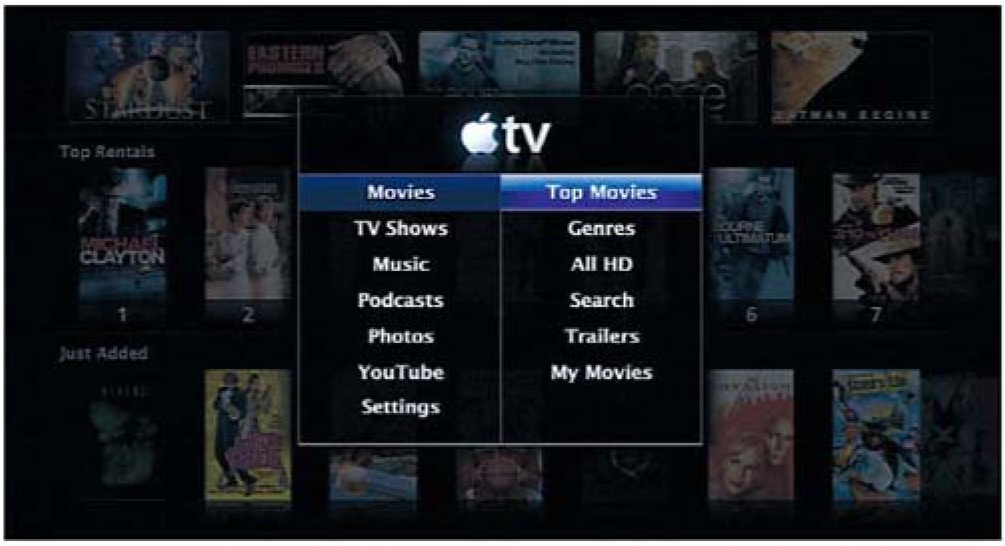
Movie Details	Actors	Director	Producers
Drama	George Clooney	Tony Gilroy	Steven Samuels
Released 2007	Tom Wilkinson		Jennifer Fox
120 minutes	Tilda Swinton		Kerry Orent
	Sydney Pollack		Sydney Pollack
	Michael O'Keefe		

Rent a Movie With the Apple TV, you can rent standard definition and—if they're available—high definition movies from the iTunes Store.

The Look and Sound

Interruptions and time limits aside, I was impressed by the look of the HD rentals I watched on my 42-inch Panasonic plasma TV. While these movies aren't Blu-ray Disc quality, they look far better than many of the DVDs I own. I also found that standard definition content was completely watchable on my TV.

I was just as impressed by the sound. *Live Free or Die Hard*'s 5.1 soundtrack was nicely separated and sounded huge through my 5.1 AV receiver. And I applaud Apple's decision to include an AirTunes option—the ability to choose the Apple TV as a remote speaker system within iTunes and stream music to it and its attached AV gear. This may seem like simply the inverse of the Apple TV's traditional relationship—where it pulls music from iTunes rather than iTunes pushing music to it—but being able to add the speakers attached to your Apple TV to a houseful of AirPort Extreme Base Stations that are likewise streaming music to their attached speakers is a nice benefit.



New Navigation The Apple TV's new split-pane interface eliminates the need to navigate your way through a series of cascading screens.

Quirks

As enthusiastic as I am about the Apple TV, it's not perfect. You can't shuffle music videos as you can music files, for example—even though music videos are found in the Apple TV's music area, and that same music area allows you to shuffle songs. And though you can purchase TV shows directly from the Apple TV, you can't subscribe to them (or to podcasts, for that matter)—you still must do that from your computer, within iTunes.

Finally, my Apple TVs that are running the "take-two" software aren't as stable as they were when running software version 1.1. In my week of testing, I had to force-restart one or the other of the Apple TVs a couple of times when the device became unresponsive. I haven't had to do that more than once with version 1.1 of the Apple TV software.

Macworld's Buying Advice

If you've avoided the Apple TV in the past because it depended on your computer, because you wanted HD video and 5.1 surround sound and couldn't have it, or because you simply couldn't imagine why you'd need another box tethered to your TV, it's time for a serious rethink. This is an important and useful piece of technology. ☒

Senior Editor **Christopher Breen** is the author of *The iPod and iTunes Pocket Guide*, third edition (Peachpit Press, 2007).

macworld.com/reviews

What we're reviewing online this month

SOFTWARE

Aperture 2.0 △

RATING: **PRICE:** $199 **COMPANY:** Apple **URL:** www.apple.com

Aperture 2.0.1 is the photo-editing and -management tool photographers have always wanted. This latest version offers new tools, a streamlined interface that is familiar yet tweaked for a much better workflow, and major performance improvements in workflow-related tasks, such as loading images and rendering adjustments. Aperture 2.0's updated interface cuts down on the clutter and is a pleasure to use (macworld.com/3445).

Bento 1.0

RATING: **PRICE:** $49 **COMPANY:** FileMaker **URL:** www.filemaker.com

Bento 1.0.2, the new consumer-level database from FileMaker, aims to do for databases what Apple's Numbers and Pages did for spreadsheets and page-layout programs, respectively: make them easy and accessible for everyday users. Bento provides an approachable interface that appeals to the general consumer, and a feature set that enables a single user to manage data. Bento won't meet the needs of power users, but for tracking household or even small-business expenses, insurance inventories, and similar details, Bento is quick, easy, and effective (macworld.com/3446).

FIND IT ONLINE For expanded reviews, type the blue URL at the end of each summary into your browser's address bar.

Cake Mania △

RATING: **PRICE:** $20 **COMPANY:** Sandlot Games **URL:** www.sandlotgames.com

In Cake Mania—a so-called plate-spinning game in which you have to balance as many activities simultaneously as you can—you take the role of Jill, a young entrepreneur with dreams of owning her own baking empire. She opens a small neighborhood bakery and earns money by waiting on customers quickly and efficiently. The faster you take in the orders and get your customers their cakes, the more money you make. When things go well, Cake Mania is a lot of fun to play. When they don't, it turns into a frustrating mess. Cake Mania is the ideal time-waster (macworld.com/3447).

Expression Media 1.0 △

RATING: **PRICE:** $299; as part of the Office 2008 Special Media Edition, $500 **COMPANY:** Microsoft **URL:** www.microsoft.com/mac

Microsoft Expression Media, available either as a stand-alone program or bundled with Microsoft Office 2008 Special Media Edition, is a comprehensive media asset manager that is solid and easy to use, especially if you prefer to have a bit more control over your workflow, or if you wish to manage file types that go beyond images. Unlike Adobe's Lightroom and Apple's Aperture, which also include image-editing functionality, Expression Media focuses mostly on management (macworld.com/3352).

HARDWARE

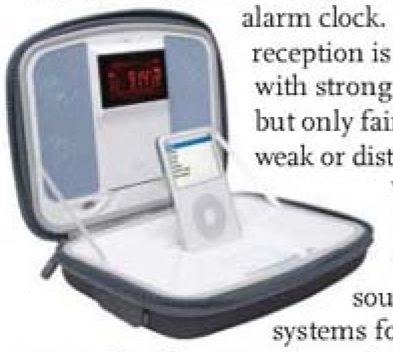
2GB iPod Shuffle △

RATING: **PRICE:** $69 **COMPANY:** Apple **URL:** www.apple.com

With the exception of its lower price and increased capacity, the new 2GB iPod shuffle is more or less the same audio player as the original second-generation shuffle. Like its predecessor, this iPod does not support the Apple Lossless audio format; its battery life is better than Apple claims; with its dock, it can double as a flash drive; and its sound quality is about the same (macworld.com/3450).

Sonic Impact i-F3

RATING: **PRICE:** $170 **COMPANY:** Sonic Impact Technologies **URL:** www.si5.com



The i-F3, an updated version of the i-F2 portable speaker system for the iPod, offers similarly good sound in a sturdy package that's great for travel—it even has storage compartments for your iPod and earbuds. In addition to the wireless remote control and international AC adapter offered in the earlier model, the i-F3 includes a Universal Dock cradle, an FM radio, and a two-alarm clock. Radio reception is good with strong stations, but only fair with weak or distant ones. You can find better-sounding systems for less money, but few are as ruggedly built as the i-F3 (macworld.com/3326).

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Top Products

Your guide to the best hardware we've tested. See more at macworld.com/reviews.

PRINTERS

LASER PRINTER

C6100dn

RATING: ●●●●◐
PRICE: $799
COMPANY: Oki Data
URL: www.okidata.com

The C6100dn, from Oki Data, produces great-looking prints and includes built-in duplexing. It also offers easy network connectivity and quick printing speeds (macworld.com/1670).

INK-JET PHOTO PRINTER

Stylus Photo 1400

RATING: ●●●●
PRICE: $300
COMPANY: Epson
URL: www.epson.com

Epson's Stylus Photo 1400 prints photos that are rich in both color and detail. Capable of outputting images as large as 13 by 19 inches, this printer is surprisingly affordable, without compromising on quality (macworld.com/2924).

COMPACT PHOTO PRINTER

PictureMate Zoom PM 290

RATING: ●●●●◐ **PRICE:** $200
COMPANY: Epson
URL: www.epson.com

Affordable, problem-free, and enjoyable to use, the PictureMate Zoom is the speediest and best overall portable photo printer on the market (macworld.com/3102).

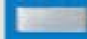
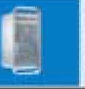
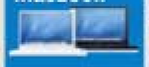
MULTIFUNCTION INK-JET

Stylus Photo RX680

RATING: ●●●●◐ **PRICE:** $130
COMPANY: Epson
URL: www.epson.com

NEW With terrific print quality and features such as two paper trays, a duplexer, and stand-alone photo restoration, the Epson Stylus Photo RX680 is truly an excellent multifunction printer (macworld.com/3458).

MACS

PRODUCT	PROCESSOR	RATING	PRICE[A]	DISPLAY	SPEEDMARK 5 SCORE[B]	FIND CODE[C]
DESKTOP						
iMac	Intel Core 2 Duo/2GHz	●●●●	$1,040	20 inches	210	3029
	Intel Core 2 Duo/2.4GHz	●●●●	$1,300	20 inches	245	3028
	Intel Core 2 Duo/2.4GHz	●●●●◐	$1,750	24 inches	245	3027
Mac mini 	Intel Core 2 Duo/1.83GHz	●●●●	$550	not included	159	3030
	Intel Core 2 Duo/2GHz	●●●●	$756	not included	172	3031
Mac Pro 	Intel Xeon/ two quad-core 2.8GHz	●●●●◐	$2,630	not included	314	3363
PORTABLE						
MacBook 	Intel Core 2 Duo/2.1GHz	●●●●	$1,075	13 inches	180	3464
	Intel Core 2 Duo/2.4GHz	●●●●◐	$1,280	13 inches	193	3465
	Intel Core 2 Duo/ 2.4GHz (black)	●●●●◐	$1,479	13 inches	196	3466
MacBook Air	Intel Core 2 Duo/1.6GHz	●●●◐	$1,794	13 inches	124	3364
MacBook Pro	Intel Core 2 Duo/2.4GHz	●●●●◐	$1,946	15 inches	204	3467
	Intel Core 2 Duo/2.5GHz	●●●●◐	$2,446	15 inches	222	3468
	Intel Core 2 Duo/2.5GHz	●●●●◐	$2,730	17 inches	219	3469

[A] From a PriceGrabber survey of retailers as of March 13, 2008. [B] Speedmark 5 is Macworld Lab's standard test tool for benchmarking systems running Mac OS X 10.5 (Leopard). For information on Speedmark testing, go to www.macworld.com/speedmark. [C] Typing in find codes after *macworld.com/* directs you to a product's review or overview. For example, macworld.com/3363 contains an overview of the 2.8GHz Mac Pro.

MULTIFUNCTION LASER

X500N

RATING: ●●●●
PRICE: $370
COMPANY: Lexmark
URL: www.lexmark.com

Don't let the Lexmark X500N's low price tag fool you. This jack-of-all-trades color laser printer, scanner, and copier is very easy to use, has an automatic document feeder, and is an impressive overall performer (macworld.com/3278).

FLATBED SCANNER

Perfection V700 Photo

RATING: ●●●●
PRICE: $461
COMPANY: Epson
URL: www.epson.com

The Epson Perfection V700 Photo is an excellent and extremely speedy midrange scanner that's equipped with two lenses for people who need to scan both reflective media and transparencies, especially at high resolutions (macworld.com/1519).

Top Products are those we've recently reviewed in a comparison of like products. As new products become available, we'll update this list. For longer reviews of these products and for other product recommendations, go to macworld.com/reviews. All prices are the best current prices taken from a PriceGrabber survey of retailers as of March 13, 2008.

DIGITAL CAMERAS

DIGITAL SLR

D40

RATING: ●●●●
PRICE: $469
COMPANY: Nikon
URL: www.nikonusa.com

The Nikon D40 is a great value. This 6.1-megapixel camera comes with every feature you'd desire in a DSLR, such as adjustable ISO, Raw mode, and a variety of image-processing features (macworld.com/2498).

COMPACT DIGITAL CAMERA

NV11

RATING: ●●●●◐
PRICE: $200
COMPANY: Samsung
URL: www.samsung.com

An excellent digital camera, the 10.1-megapixel Samsung NV11 equally accommodates both beginners and advanced shutterbugs (macworld.com/2984).

MINIDV CAMCORDER

PV-GS320

RATING: ●●●●
PRICE: $338
COMPANY: Panasonic **URL:** www.panasonic.com

Compared with other 3-CCD MiniDV camcorders, the Panasonic PV-GS320 is a bargain. And it's a good choice for people who want a camcorder that shoots high-quality video and still images for half the cost of a high definition device (macworld.com/2701).

LCD MONITORS

LARGE DISPLAY

LP2465

RATING: ●●●●
PRICE: $620 **COMPANY:** Hewlett-Packard
URL: www.hp.com

The HP LP2465 is an extremely adjustable 24-inch desktop LCD panel with a 16:10 wide-screen aspect ratio that immediately calls to mind the cinema. This affordable display's screen features a quick, 6ms gray-to-gray pixel response time, which makes it an excellent choice for viewing motion-heavy graphics (macworld.com/2508).

MEDIUM DISPLAY

MultiSync 2190UXi

RATING: ●●●●◐ **PRICE:** $977 **COMPANY:** NEC
URL: www.necdisplay.com

The NEC MultiSync 2190UXi monitor is designed—and priced—for professional users. This 21-inch display doesn't come cheap, but it offers vivid, accurate colors; a wide viewing angle; and a convenient height-adjustable stand (macworld.com/1445).

FIREWIRE HARD DRIVES

DESKTOP DRIVE

My Book Studio Edition

RATING: ●●●●◐ **PRICE:** $300
COMPANY: Western Digital
URL: www.westerndigital.com

The My Book Studio Edition's affordability, versatile connection options, compact design, and good performance add up to a superb 1TB drive (macworld.com/3295).

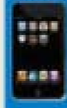
PORTABLE DRIVE

Rocbit 2B

RATING: ●●●●●
PRICE: $195
COMPANY: Rocsecure **URL:** www.rocsecure.com

The portable Rocbit 2B is priced a bit higher than similar portable drives that lack encryption, but it's well worth its cost if security is a concern. In our tests, the Rocbit 2B was 6 to 31 percent faster than three comparable drives from other vendors (macworld.com/1443).

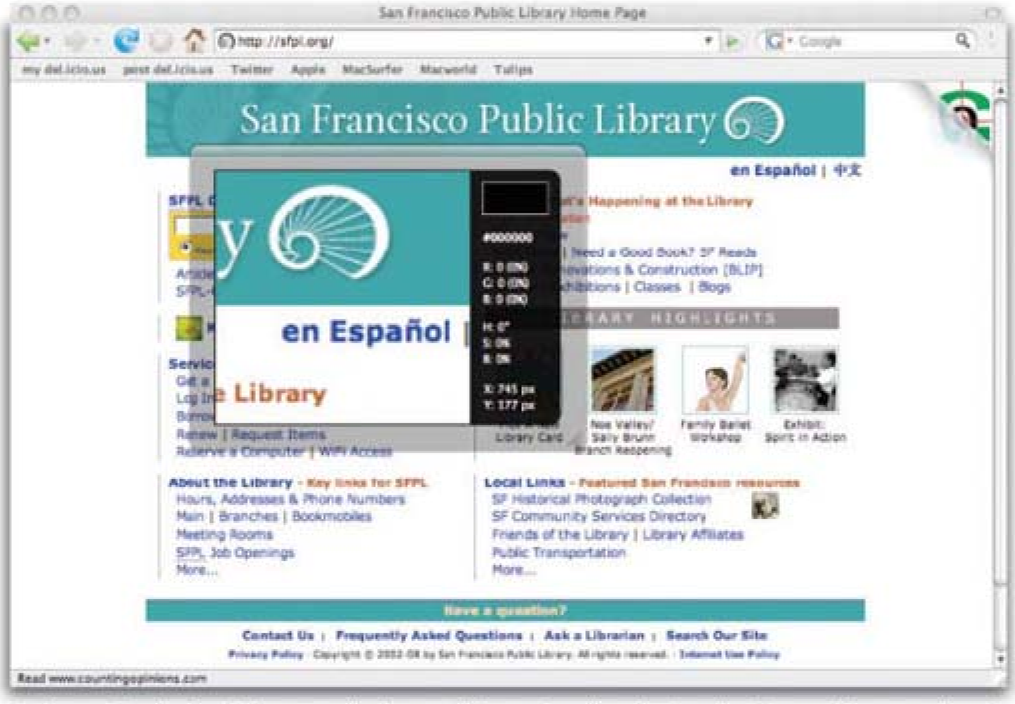
iPODS

PRODUCT	CAPACITY	RATING	PRICE[A]	DISPLAY	BATTERY LIFE	MEDIA SUPPORTED	FIND CODE[B]
iPod classic	80GB	●●●●	$230	2.5-inch color	30 hours of music playback; 5 hours of video playback	Music, photos, album art, video, games	**3090**
	160GB	●●●●	$330	2.5-inch color	40 hours of music playback; 7 hours of video playback	Music, photos, album art, video, games	**3091**
iPod touch 	8GB	●●●◐	$259	3.5-inch color	22 hours of music playback; 5 hours of video playback	Music, photos, album art, video	**3092**
	16GB	●●●◐	$340	3.5-inch color	22 hours of music playback; 5 hours of video playback	Music, photos, album art, video	**3093**
	32GB	●●●●	$479	3.5-inch color	22 hours of music playback; 5 hours of video playback	Music, photos, album art, video	**3365**
iPod nano	4GB	●●●●◐	$150	2-inch color	24 hours of music playback; 5 hours of video playback	Music, photos, album art, video, games	**3094**
iPod nano	8GB	●●●●◐	$188	2-inch color	24 hours of music playback; 5 hours of video playback	Music, photos, album art, video, games	**3095**
iPod shuffle	1GB	●●●●	$47	none	12 hours of music playback	Music	**2238**
	2GB	●●●●	$69	none	12 hours of music playback	Music	**3470**

[A] From a PriceGrabber survey of retailers as of March 13, 2008. [B] Typing in find codes after *macworld.com/* directs you to a product's review or overview. For example, macworld.com/3092 contains an overview of the 8GB iPod touch.

Mac Gems

Get more and expanded reviews at macworld.com/macgems **BY DAN FRAKES**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B: 0%
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Y: 177 px
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Designer Tools For designers and other graphics-oriented professionals, xScope offers a number of useful utilities such as the Loupe shown here.

UTILITY

xScope 2.0

RATING: 🖱🖱🖱🖱½ **PRICE:** $27 **COMPANY:** The Iconfactory and Artis Software **URL:** www.iconfactory.com

When it comes to many types of design—especially Web design and graphic design—it's important to know the sizes and locations of on-screen elements. Measuring these metrics, however, isn't always easy. I've found a handy solution in xScope 2.0, which combines a number of on-screen measurement tools in a single utility.

The Dimensions tool is xScope's flagship feature. You simply place your cursor in the area to be measured, and two "laser beams"—one vertical, one horizontal—shoot out. As if by magic, the beams stop when they hit other on-screen objects, such as a window's edge or a column of text. Then xScope displays the length, in pixels, of each beam. The Dimensions tool's ability to determine the correct edges of an object or area is impressive; the tool can even find the dimensions of a single letter in a document or the space between two characters.

My other favorite tool, Screens, displays a translucent overlay representing a particular screen size, which is helpful when your designs need to be mindful of screen resolution. A pop-up menu lets you switch to the desired simulated screen; choices include the iPhone and Apple's various displays, and you can add your own, too. The Screen tool also shows you how much of the screen will be available when you display your work in a Web browser. Just click on a browser name in the list to display the page-viewing area of that browser (assuming the browser is set to fill the screen and is using its default settings).

Other tools include a Loupe that magnifies a portion of the screen and grabs the HTML, RGB, or HSB color values for a specific pixel; horizontal and vertical guides for aligning objects; frames for designing a particular area; a crosshairs cursor for identifying cursor coordinates; and rulers for measuring on-screen objects.

The beauty of xScope—apart from its appealing visuals—is that it makes tools available via menu-bar icons, a floating tool palette, keyboard shortcuts, or any combination of the three. For example, you can decide to have only Dimensions and Screens appear in the menu bar, and use keyboard shortcuts for the rest. Tools can be quickly toggled on and off, multiple tools can be active simultaneously, and each tool remembers its last settings.

Definitely a niche product, xScope is a unique and useful tool for people who need its functionality.

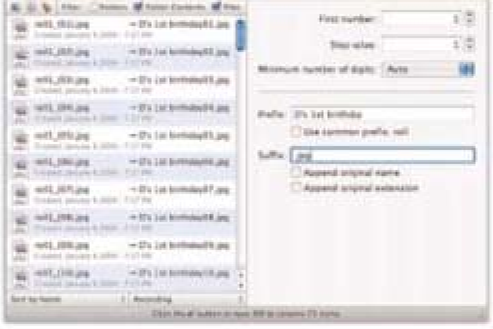
UTILITY

Name Mangler 2.0

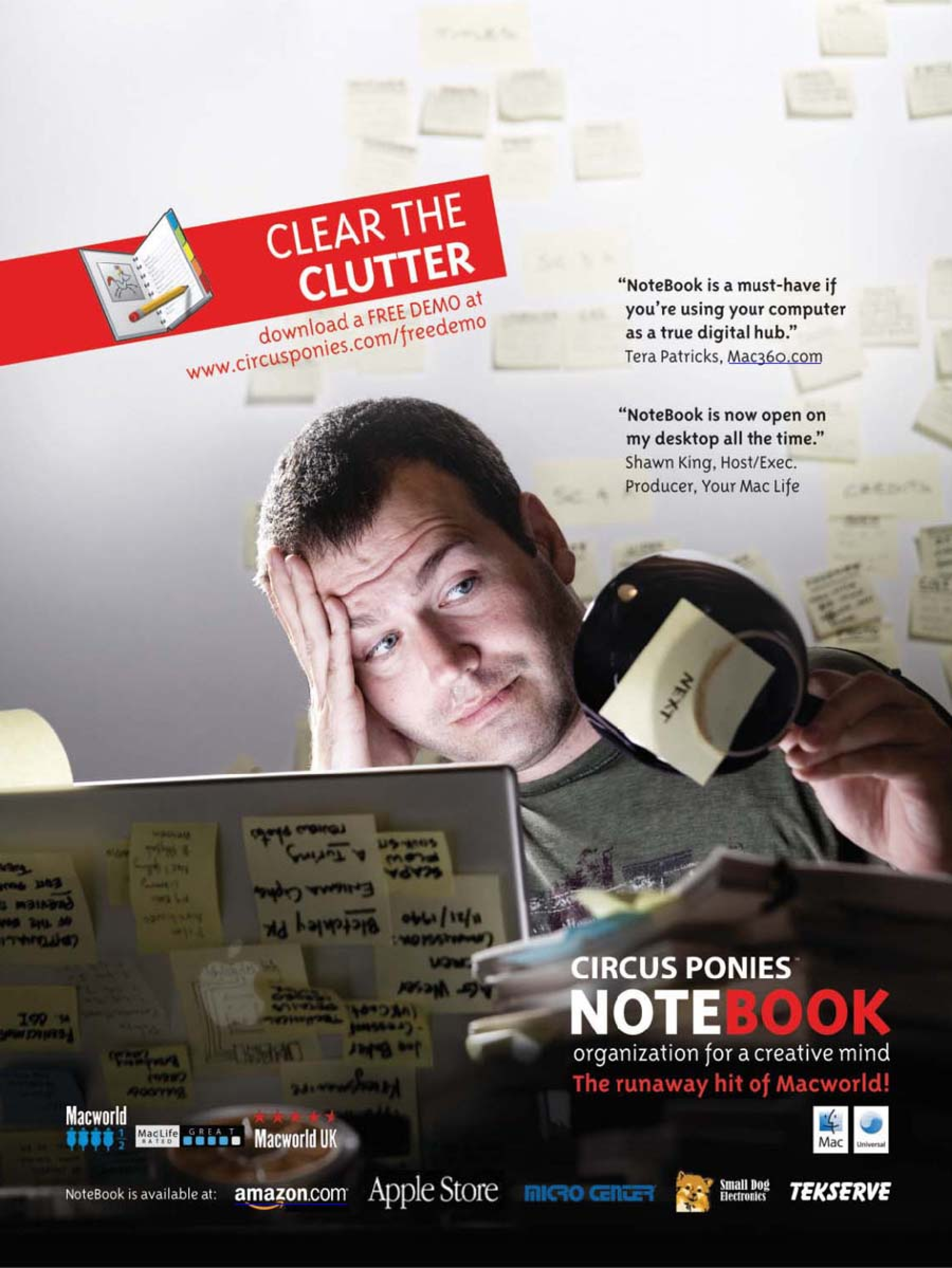
RATING: 🖱🖱🖱🖱 **PRICE:** donations accepted **COMPANY:** Many Tricks **URL:** www.manytricks.com

If you're looking to rename a bunch of files in the Finder, try my favorite tool, Name Mangler (formerly File List). It offers an abundance of options and an easy-to-use interface.

To use Name Mangler, you first drag the files you want to rename into the left side of the Name Mangler window; you can sort the list by any of a number of criteria, and you can see detailed



Easy File Renaming Name Mangler offers powerful yet easy-to-use features for renaming files en masse.



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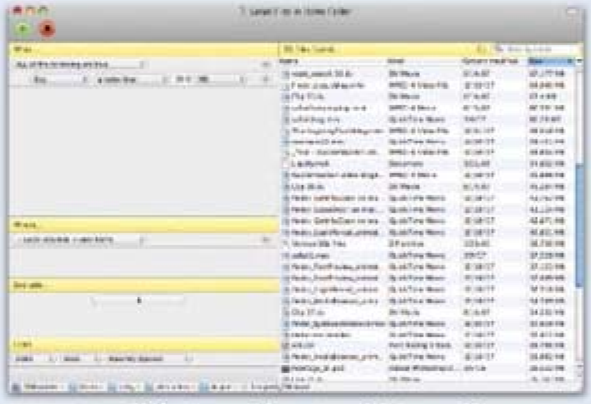
information about each file. To the right of each file name is the new name the file will take on after you process it; this display updates in real time as you change the renaming settings.

A pop-up menu at the top of the window lets you choose the type of renaming action you want to perform; the various settings for each type appear on the right side of the window. The Find And Replace action lets you replace specified text in names with other text. Number Sequentially lets you number files according to the number and increment you specify. Other actions let you change the case of file names; change file extensions; add prefixes or suffixes; and remove or insert characters at specific positions. Most of these actions offer additional options, such as keeping the original name as part of the new name, keeping or changing the file extension, and more.

An Advanced screen lets you use a special Name Conversion Description Language to combine any of the

HoudahSpot 2.0.8

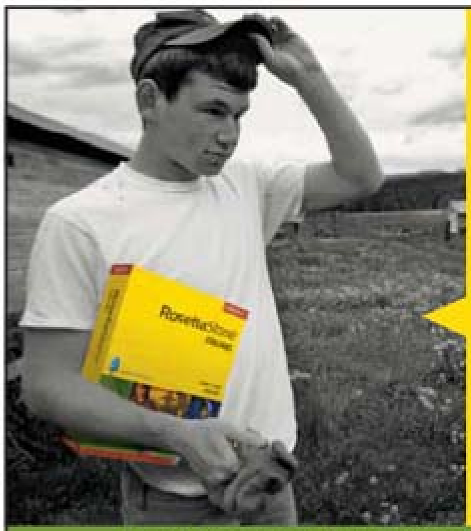


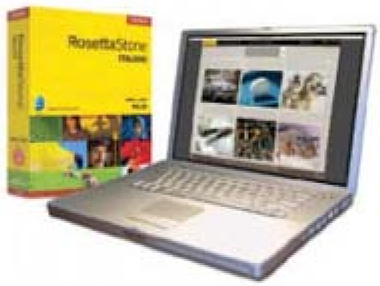
Better Spotlight Searching HoudahSpot offers an alternative interface for Leopard's Spotlight technology.

Leopard's version of Spotlight addresses most of my complaints about the Tiger version, but it's still not perfect. One big shortcoming is its inability to customize the columns displayed in the Finder's Spotlight-results window; you're stuck with Name, Kind, and Last Opened. If, say, you're searching for big files to delete from your hard drive, you'll want to know the size of each file, and also sort the results by size. Until now, your only recourse has been to use Get Info on the files, one at a time.

Enter Houdah Software's **HoudahSpot 2.0.8** (●●●●; €15, or about $22; macworld.com/3421), a third-party interface for OS X's Spotlight technology. After running a Spotlight search in HoudahSpot, you can add a Size column and then click on it to sort your results by size. In fact, HoudahSpot lets you add any Spotlight search field as a column.

HoudahSpot also lets you specify the search query, choose the location(s) being searched, exclude particular directories, and then limit the results based on date created, date modified, or date opened. And you can save searches and assign keyboard shortcuts to them, as well as do many more things you can't do in the Finder.—ROB GRIFFITHS





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options, as well as to perform more-advanced actions.

Once you've chosen and configured your renaming options, and confirmed the previews of the new names, simply click on the Start button (which looks like a Play button) at the bottom of the Name Mangler window. The renaming procedure is fairly quick, although the more files you're renaming, the longer the process takes.

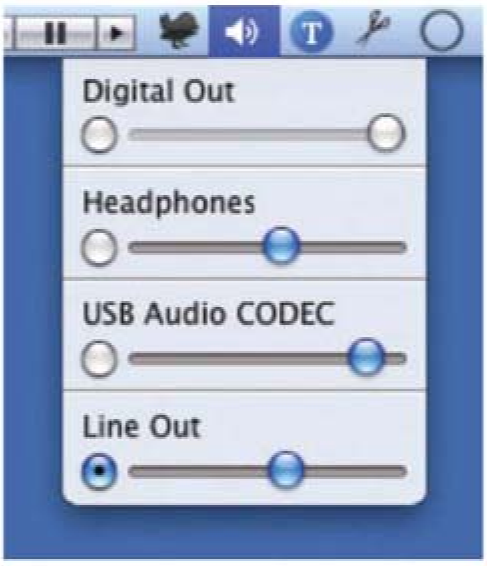
Name Mangler's functionality and interface are tough to beat—especially for the price.

AUDIO

PTHVolume 2.1.0

RATING: ♦♦♦♦ **PRICE:** free **COMPANY:** PTH Consulting **URL:** www.pth.com

If your Mac has multiple audio outputs—for example, a headphone jack, a line-out jack, and a USB device—it's a hassle to have to visit System Preferences each time you want to switch to a different output. PTHVolume 2.1.0 provides a more efficient way of switching your audio output.



Volume Control For people with multiple audio devices, PTHVolume lets you choose which device to use—and how loud to play it.

Once installed, PTHVolume appears in the menu bar, just like Apple's own volume-control menu. But PTHVolume's menu shows all available audio outputs and each one's current volume setting. You click on the radio button next to an output to switch to it, and you drag the appropriate volume slider to change the volume.

PTHVolume also lets you assign keyboard shortcuts to each output for quicker switching, as well as to Volume Up, Volume Down, and Mute settings—you can set master controls, separate controls for each output, or both. This is useful for third-party keyboards that don't have built-in volume and mute keys.

Two things I'd like to see in future versions are on-screen confirmation of output-device and volume changes, and, next to each output, a menu display of the keyboard shortcuts I've chosen. Still, if you have several audio outputs, or if you're using a non-Apple keyboard and you wish it had volume and mute controls, PTHVolume is a must-have. ☒

Senior Editor **Dan Frakes** is always looking for great, low-cost products. Send your thoughts on this column, or on things you'd like to see in future columns, to macgems@macworld.com.

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Can iWork '08 challen
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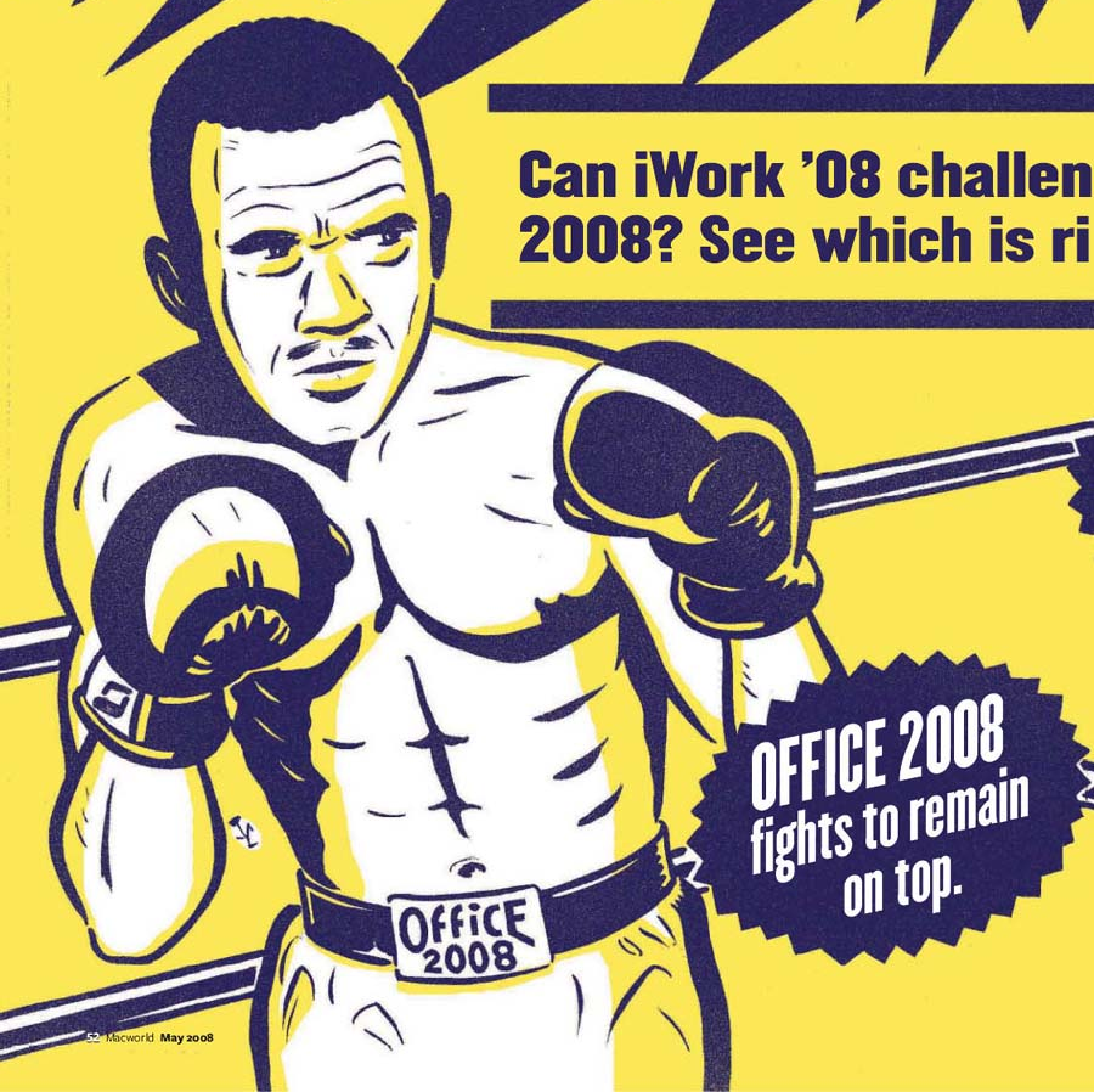

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on top.

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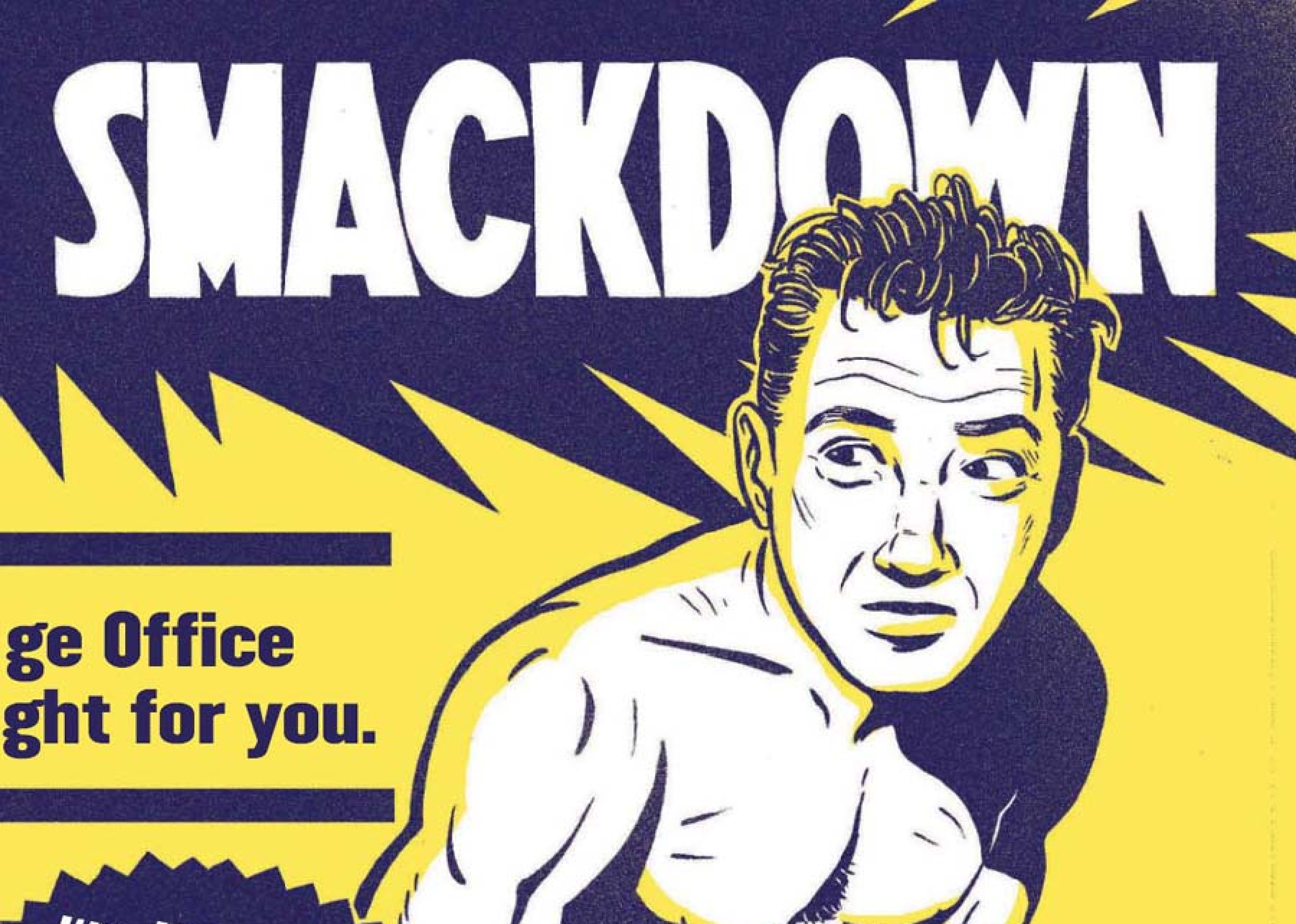


Will iWORK '08 pull off the upset?

For years, Microsoft Office was the undisputed champion of Mac software suites. Then came Apple's iWork. At first it consisted solely of Pages and Keynote—not enough to take on Office head-to-head. But when Apple added Numbers to iWork '08, the suite became a viable alternative to Microsoft Office.

How viable? That's what we asked Jeffery Battersby, Rob Griffiths, and Franklin N. Tessler—our go-to experts on word processors, spreadsheets, and presentation programs, respectively—to find out.

We asked each of them to use Office and iWork to create a project in their respective areas of expertise (Word and Pages for Battersby, Excel and Numbers for Griffiths, and PowerPoint and Keynote for Tessler). Each project was to progress from the basics (data entry and formatting) to more-advanced features (adding a data-entry form to a spreadsheet, for example, or advanced animations in a presentation). Our questions: Is one program better than the other? What are their strengths and weaknesses? Which jobs (and which users) require which tool?

Of course, we knew our test wouldn't touch on every single feature in every program. But we figured we'd be able to compare the tools that you might typically require in a real-world job. Which suite came out on top in our software bouts? Read on to find out.

ILLUSTRATIONS BY JONATHAN CARLSON

Word 2008 VERSUS Pages '08

BY JEFFERY BATTERSBY

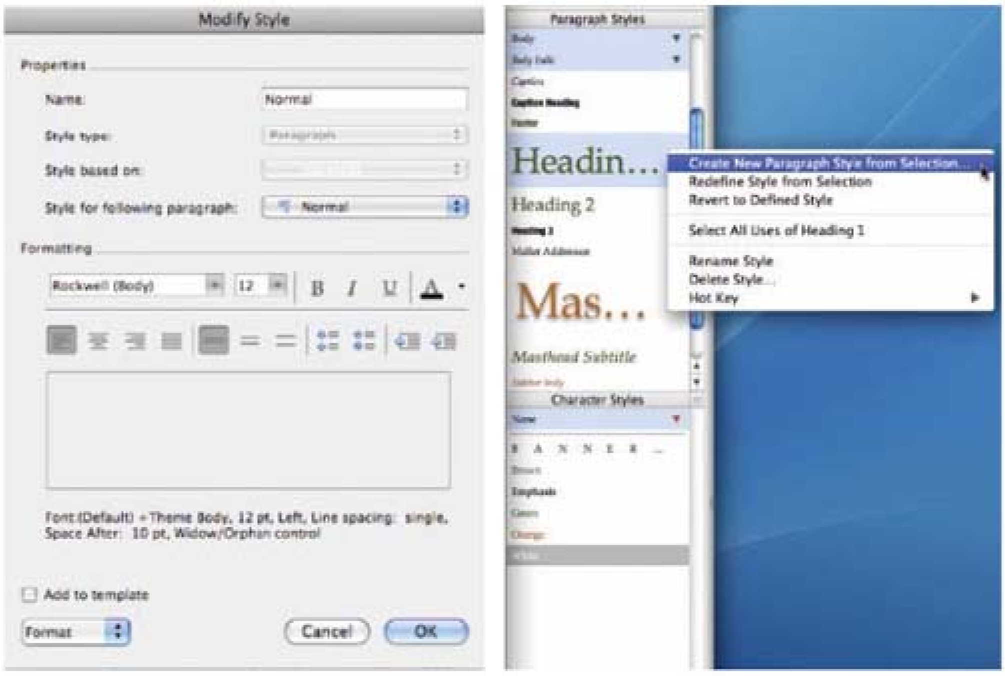
To compare Microsoft Word (●●●◐; macworld.com/3345) to Pages '08 (●●●◐; macworld.com/3041), I used each program to create the same four-page newsletter. I created my basic text and layout in each program's word processing mode, and then added a variety of paragraph styles and some design elements, including columns, callouts, drop caps, and graphics. Finally, I switched to each program's page-layout mode to create a more sophisticated, template-based version of the same document.

★ROUND 1★

TEXT ENTRY, SIMPLE FORMATTING

I started by creating the basic newsletter layout: title text, volume and issue numbers below that, a headline for my main article, body text for the article itself, and a page number in the page footer. I used each program's default styles for the initial formatting and then edited those styles to alter the document's look. Both programs make all these initial steps simple.

In Word, I created each element of the document in Word's default paragraph style. To format those elements more distinctly, I then selected the styles I wanted to use from the Style menu in the floating Formatting Palette. I used Word's new Document Elements tool to add page numbers to the document's footers.



Name: Normal

Style for following paragraph: Normal

Rockwell (Body) 12

Font:(Default) + Theme Body, 12 pt, Left, Line spacing: single, Space After: 10 pt, Widow/Orphan control

☐ Add to template

Editing Styles Because of Word's style-formatting tools, modifying and creating styles is easier in Word than it is in Pages.

It's only slightly tougher to do all that in Pages. Again, I used the default style and typed my text, and then adjusted my paragraph styles. But I couldn't assign paragraph styles from a floating palette in Pages. Instead, I had to open the Paragraph Styles drawer and choose the style I wanted from there. (I could also have assigned a keyboard shortcut to each style and applied it with a couple of keystrokes.)

Word's styles editor makes it easy to go beyond the default styles: From the floating Formatting Palette, I opened the Styles palette, clicked to the right of the field displaying the style of the current paragraph, and chose to modify that style. Word then opened a window where I quickly chose the text color, font sizes, indents, bullets, and other options. Once my edits were complete, every paragraph in my newsletter using that style updated to reflect the changes I'd made.

Editing and updating styles isn't as easy in Pages. I had to use the standard formatting tools to adjust existing paragraphs, and then open the Styles Drawer and choose to either create a new style or redefine the current style. This isn't necessarily difficult, but Word's way is much more intuitive and easier to use.

Word 2008 has one other advantage when it comes to quickly changing a document's overall look: Document Themes. These are collections of paragraph styles that change fonts, paragraph formats, text colors, and other document features with a single click of the button. Word ships with over 50 of these themes; you can also create your own, but, oddly enough, you have to use PowerPoint to do it. Pages really has nothing that compares.

My verdict: When it comes to basic text editing, Pages and Word are perfect equals. But when it comes to editing and creating styles, and quickly overhauling the look of your document, Word is better.

★ROUND 2★

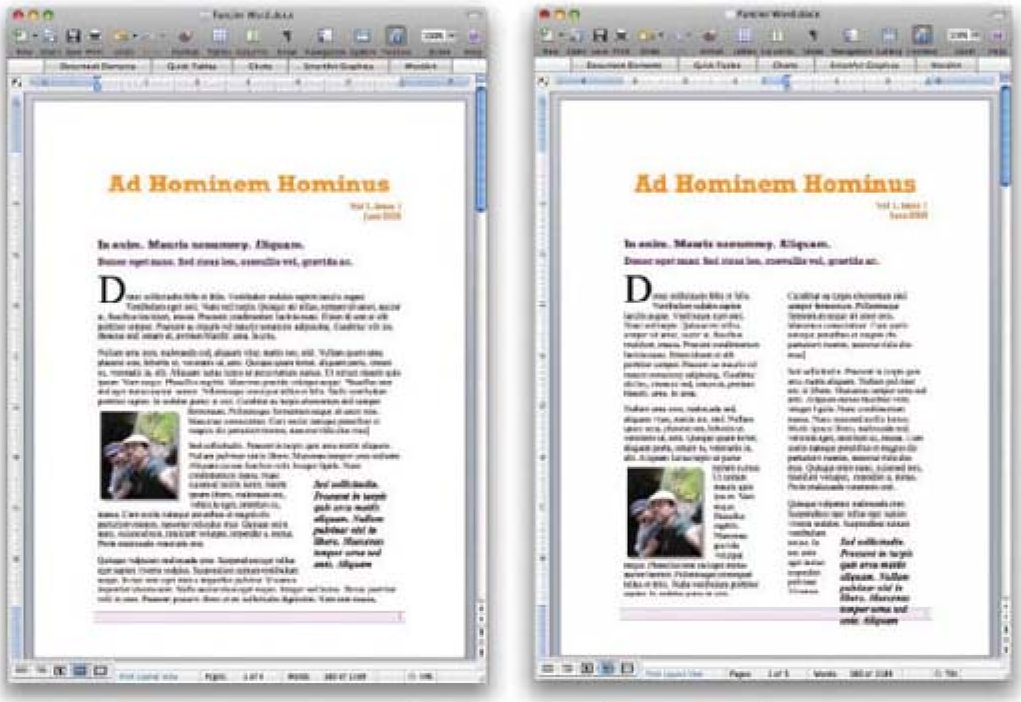
ADVANCED DOCUMENT ELEMENTS

With my basic text and formatting in place, I then began adding more-complex elements, such as sections, columns, drop caps, images, callouts, and tables of contents.

While both programs easily handle sections and columns, they use a somewhat different vocabulary to do so. For example, what Word refers to as a Continuous Section Break, Pages calls a Layout Break.

Adding a drop cap in Word was equally easy; it's a simple matter of selecting a menu option. Pages doesn't have a built-in drop-cap tool. Instead, I had to finagle my own drop cap by inserting a text box with a single character in it. This inelegant solution never really worked; the spacing between my drop cap and the rest of the text was always a bit off.

The first time I ran into any limitations in Word was when I started to add floating objects—such as pictures and callout text around which text flows. For starters, its image-editing tools aren't very good. More significantly, when I changed a column of text, the floating objects in it refused to stay in place. Instead they moved around as if tied to the text they were originally placed next to, destroying my layout. If I selected all the text in a document and deleted it or replaced it with text from the Clipboard, floating objects within the original text disappeared, too. In other words, if you make any major changes to a document after inserting floating objects, you'll probably need to completely re-create your layout.



Moving Objects Floating objects don't float in Word's word processing mode, so they wreak havoc on your layout if you make any major paragraph-formatting changes.

10 KEY DIFFERENCES

Word/Pages

	Word	Pages
AUTOMATION (VIA APPLESCRIPT AND/OR AUTOMATOR)	● ^{A}	●
CLIP-ART LIBRARY	●	○
COMPATIBLE WITH .DOC FORMAT	● ^{A}	●
DROP-CAP SUPPORT	●	○
EMBEDDED CHARTS	● ^{A,B}	●
HORIZONTAL TYPING IN VERTICAL TEXT FIELDS	○	●
IMAGE-EDITING TOOLS	●	● ^{A}
MAIL MERGING FROM A VARIETY OF SOURCES	●	○
MULTIPLE FLOATING PALETTES	○	●
SUPPORT FOR FLOATING OBJECTS	●	● ^{A}

● = yes. ○ = no. ^{A} Better. ^{B} From Excel.

Pages' image-editing tools are much better than Word's. You can, for example, change an image mask or add an alpha channel. And Pages treats floating objects much more intelligently—as separate and distinct from the text that surrounds them. When I edited text within columns containing floating objects, those objects stayed where they were. Select and delete text and, again, the objects remain right where you put them.

I was disappointed with each program's handling of tables of contents. While both programs use paragraph styles to gather information for a table of contents, neither would allow me to place the resulting table inside a text box; they insisted on putting the table on its own full page. To get the table of contents I wanted, I had to create it manually in a text box.

Overall, when it comes to adding slightly more-complex formatting to basic word processing documents, I have to give the nod to Pages.

★ROUND 3★

TEMPLATES

My next step was to switch from word processing mode to page-layout mode. Neither program allowed me to convert a word processing document directly into a page-layout document, so I had to start all over from scratch: I used a built-in template to create my page-layout document, and then copied over the text I'd created when in word processing mode.

Word and Pages each include a significant collection of templates, all of

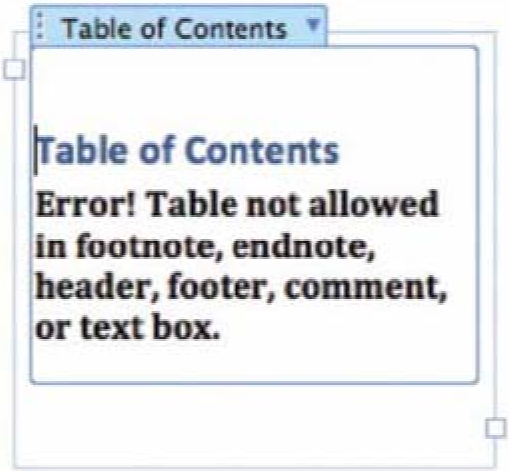
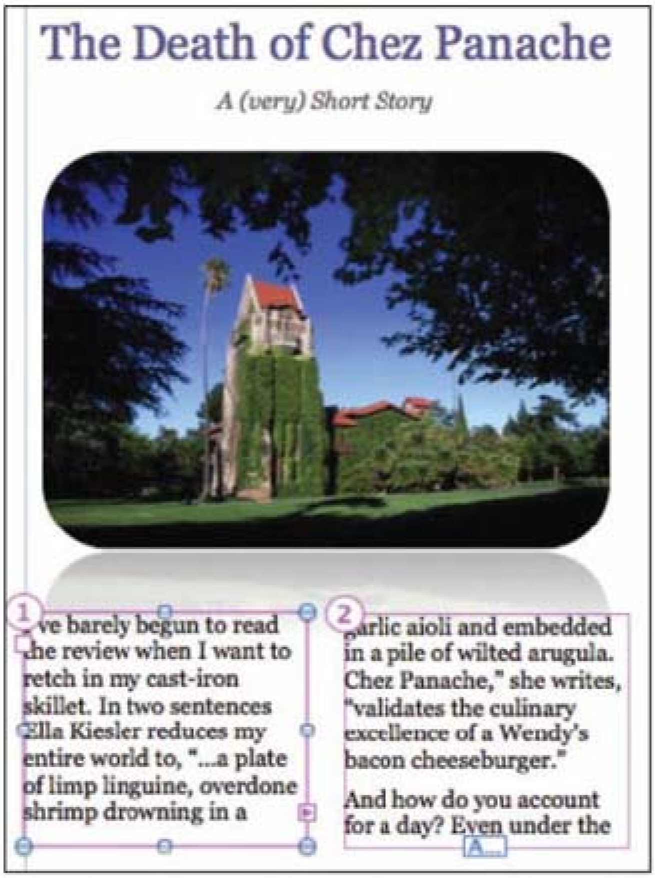


Table of Contents

Error! Table not allowed in footnote, endnote, header, footer, comment, or text box.

Table of Contents Word and Pages don't allow you to create tables of contents inside text boxes, limiting their value in page-layout or highly formatted word processing documents.



The Death of Chez Panache

A (very) Short Story

ve barely begun to read
he review when I want to
retch in my cast-iron
skillet. In two sentences
Ella Kiesler reduces my
entire world to, "...a plate
of limp linguine, overdone
shrimp drowning in a

arlic aioli and embedded
in a pile of wilted arugula.
Chez Panache," she writes,
"validates the culinary
excellence of a Wendy's
bacon cheeseburger."

And how do you account
for a day? Even under the

Flowing Text Microsoft Word provides excellent visual cues for viewing the way text flows between text boxes.

which you can modify and personalize to suit your own needs. But Pages offers a far more complete set, and it makes customizing them easier.

Templates in both programs are designed with placeholders for text and images. While both allowed me to drag and drop images onto placeholders, they handle placeholder text differently. When I dragged and dropped text onto a Pages placeholder, Pages replaced the template text with my dropped text. When I did the same thing in Word, the dropped text appeared in a new text box. In both cases, it's far easier to copy text from the original document and then paste it into a text box in the new document.

If the text I pasted into a text box was too large for the box, both programs provided visual cues to let me know there was an overflow and both allowed me to link text boxes so that the text would flow from one box or page to the next. In Word, each text box is color-coded and numbered in sequence to make it obvious where the text flows. If I held the cursor over a text box, the other linked boxes popped into view. Pages also shows how text boxes are linked sequentially, but I had to click on an existing text box to see how it linked to the next box in the sequence. The program then displayed a thin blue line that started on the first text box and connected in sequence to the last.

Both programs enable you to rearrange the pages in your document by dragging and dropping them into a navigation drawer. When I moved pages, the page numbers automatically updated. If I already had linked text boxes in the document, neither of the programs reflowed the text in the proper sequence.

When it came to more-advanced word processing chores, I again found Pages to be more capable than Word.

THE FINAL WORD

Microsoft Word may well be the standard for business word processing programs, but Apple's Pages '08 presents an excellent alternative. If you find that you're constantly changing the way a text document looks, then Word's document themes offer a distinct advantage over Pages. For all other types of documents, however, from basic word processing files to sophisticated page layouts, Pages is equal to or better than Word.

Jeffery Battersby is a regular contributor to *Macworld*. You can read his blog by going to jeffbattersby.com.

ALTERNATIVES Word Processors

Word may have most of the market share, with iWork a distant second, but there are still some other alternatives for Mac word processing.

If all you need is basic text editing, TextEdit offers everything you need to create a good, basic document. It'll let you create bulleted or numbered lists, adjust line spacing, change text alignment, or fiddle with your font formatting; it can open Word .doc files; and it's free with any Mac.

Some of my favorite text editors—BareBones Software's TextWrangler (free; www.barebones.com) and Peter Borg's excellent Smultron (free; smultron.sourceforge.net)—are good choices if you need a bit more than TextEdit. They have no formatting tools, but they're great for quickly typing and manipulating basic text, particularly if said text is bound for the Web. For editing HTML or CSS files, they both provide colored text-formatting options to help you see keywords in your code.

Among true word processors, one of my personal favorites—enough so that I used it to write most of this article—is Hog Bay Software's WriteRoom ($25; macworld.com/3416). It's a great text editor, with autocapitalization and spelling and grammar checking. It'll do basic text formatting in Rich Text Format documents. Best of all, it creates a distraction-free, full-screen writing environment that I find to be nearly perfect for just cranking out words.

If you need a little more heft, either Mariner Software's Mariner Write (●●●½; macworld.com/3417) or Nisus's Nisus Writer Pro ($79; www.nisus.com) is worth a try. Both can open Word documents and save in formats that Word can read. And they have some powerful searching tools. They also have many of the text-formatting features found in Word and Pages; both allow you to use paragraph styles to quickly change your document's look.

Finally, if you find yourself composing documents from many different Macs, you should consider either Google Docs (free; docs.google.com) or ThinkFree Online (free; www.thinkfree.com). Both are Web-based applications that you can use via any browser, and they include high-end word processing features and support for Microsoft document formats. Google Docs is the faster of the two, but ThinkFree's interface is very Word-like and offers more document-formatting options than Google.

Excel 2008 VERSUS Numbers ’08

BY ROB GRIFFITHS

To find out how Numbers ’08 (●●●½; macworld.com/3042) and Excel 2008 (●●●; macworld.com/3347) compare, I used both programs to create the same sales-tracking spreadsheet.

★ROUND 1★

DATA ENTRY, FORMULAS, AND FORMATTING

I started by creating a single worksheet, with a fictional company’s product sales by month across the top and a row for each of six sales representatives. I then added cells at the bottom and to the right, where I calculated totals and averages for each month and each salesperson.

Entering basic data in both programs is quite simple. Excel, however, made the task particularly easy. It warned me when I accidentally tried to drag one cell to another already-full cell; Numbers simply overwrote the destination without warning me. Excel also offers nine separate rules for flagging potential errors; Numbers offers only one.

When copying one cell to another, Excel highlights the copied cell, so you can easily see what you’ve copied. Numbers doesn’t, which led to some pasting errors. In addition, I found the size of the text and icons in Numbers’ toolbar to be quite small, even on a large monitor. Excel’s toolbar was much easier on my 20/20 vision.

Excel is better at helping you enter formulas. I selected the empty cell below the numbers I wanted to sum, and clicked on the Sum button in the toolbar. Excel figured out the top and bottom of the range. Numbers included extraneous rows when I tried to do the same thing.

That said, Numbers has a few nice data-entry tricks of its own: If you select an already-entered Sum formula in Numbers, the program highlights the range that formula sums; Excel does this only if you double-click on the cell to edit it. Numbers also makes it easy to see what’s being summed, without your having to click your mouse.

I found that basic formatting is also easier in Excel. For example, a keyboard shortcut (⌘-option–arrow keys) makes it a breeze to add single-line borders to any cell. Excel also provides a more extensive choice of cell border types than Numbers does.

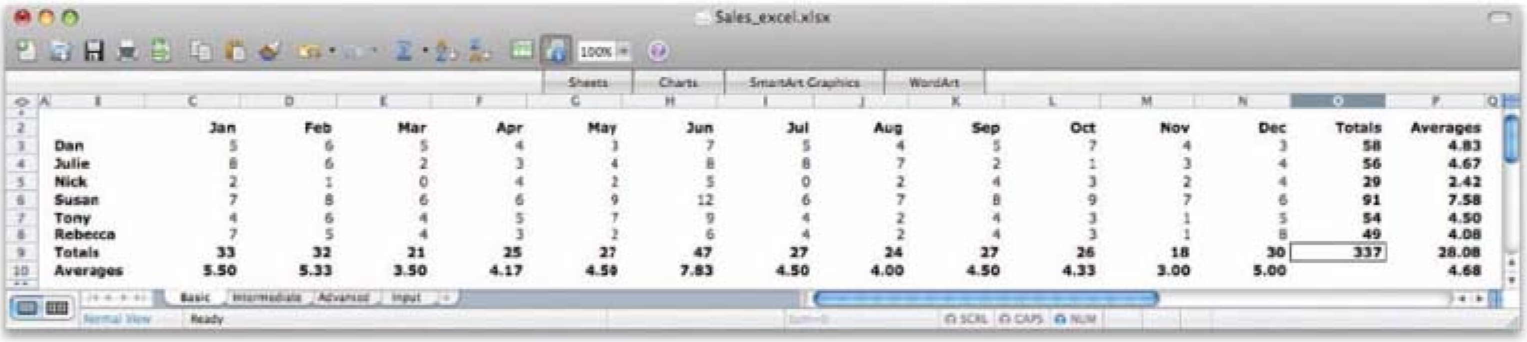
Numbers’ default worksheet size (on the Blank template) is small; if you want more than 13 rows or 45 columns, you need to drag a corner to make the sheet bigger. Excel, on the other hand, opens a massive work area, ready for even the largest of worksheets.

Overall, I found that Excel made the process of creating the simple worksheet easier and more enjoyable than Numbers did.

★ROUND 2★

CHARTS, ADVANCED FORMULAS

For the intermediate spreadsheet, I added two more products to my fictional company’s line, and then created a summary spreadsheet, which consolidated sales for all three products for all representatives by month. From that data, I created a stacked bar chart. Finally, I added some formulas to grab the names of the highest-producing month and salesperson, as well as a formula to display the name of the top-selling product.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals	Averages
Dan	5	6	5	4	3	7	5	4	5	7	4	3	58	4.83
Julie	8	6	2	3	4	8	8	7	2	1	3	4	56	4.67
Nick	2	1	0	4	2	5	0	2	4	3	2	4	29	2.42
Susan	7	8	6	6	9	12	6	7	8	9	7	6	91	7.58
Tony	4	6	4	5	7	9	4	2	4	3	1	5	54	4.50
Rebecca	7	5	4	3	2	6	4	2	4	3	1	8	49	4.08
Totals	33	32	21	25	27	47	27	24	27	26	18	30	337	28.08
Averages	5.50	5.33	3.50	4.17	4.50	7.83	4.50	4.00	4.50	4.33	3.00	5.00		4.68

Basic Spreadsheet Both Excel and Numbers made it simple to set up a basic sales-tracking spreadsheet.

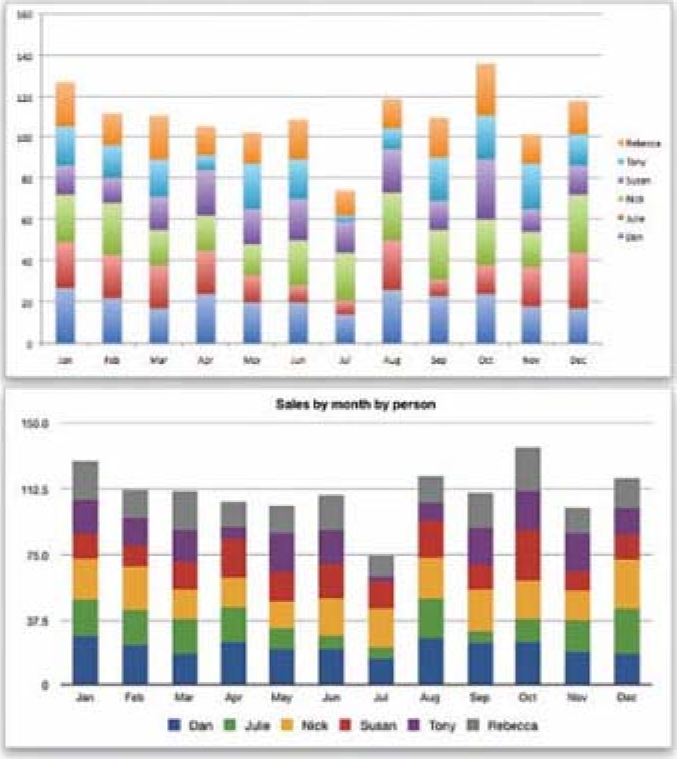


Chart Views Excel (top) and Numbers (bottom) each created decent charts easily, but Excel was smarter about it.

Creating extra worksheets was trivial in both programs, as was creating the consolidated worksheet with links to the others. The hardest part was adjusting to Numbers' use of multiple tables on one page—it's a very different approach than Excel's.

Creating charts was simple, too: in both programs, I highlighted the range I wanted to graph and clicked on a couple of buttons, and I had a basic chart. Of the two, I found Excel's raw chart to be more usable. First, the legend is attached to the chart, so they move as one object; in Numbers, the legend is a separate object, and I often forgot to move it when I moved the chart. Second, Excel scaled the *y*-axis more intelligently; Numbers tried to use noninteger values—Excel didn't.

Numbers, on the other hand, includes a default chart title, and makes it easier to see the data associated with the chart when you select it—the relevant range is highlighted in colors that match the colors used for the data points in the chart.

To pull the month name and salesperson's name for the highest-production month, I had to build formulas that used the OFFSET(), MATCH(), and MAX() functions. Excel is superior at helping you enter complex formulas—a tooltip shows up below the cell, listing each function's variables. In Numbers, no tooltips appear; I could have used the Insert Function feature, but this puts the descriptions of variables directly in the cell, and I would have had to manually overwrite them as I entered a formula.

More frustrating, however, is the inability to use the keyboard when entering formulas in Numbers. In Excel, I could use an arrow key and the shift key to rapidly select ranges while entering a formula. In Numbers, I needed to use the mouse, which really slowed down the process.

Finally, Numbers handles the Undo command in a confusing manner. If I changed a cell's value and then pressed ⌘-Z, the cell would actually go blank. I needed to press ⌘-Z again to return to the original value. Before I figured this out, I wound up with blank cells in my worksheet on a few occasions.

The winner: Excel was much better for adding charts and formulas—the ability to use the keyboard, in particular, saved me much time in entering complex formulas.

★ROUND 3★

FORMS, CONDITIONAL FORMATTING

Lastly, using a simple design and each program's tools for accepting user input, I created a sheet that would allow for easy entry of product and sales representatives' names, along with the starting month for the sales report. The values in this input page are transferred to the tracking worksheet via formulas. To define the starting month, I created a pop-up menu containing *Jan*, *Feb*, and so forth, so that users wouldn't make data-entry errors.

Translating this input into a date form that could then be used to calculate the column headers required a bit of thinking in both Numbers and Pages. That's because I wanted the pop-up menu to display the month names, but I needed to enter an actual date value into my sheet, based on the user's response to that pop-up.

So in Excel, I used a simple DATE() function with the returned value as the month number. In Numbers, though, I had to add a lookup table and use the VLOOKUP() function to convert the month name into a number usable in the DATE() formula.

I also thought about making it possible for an inexperienced user to input individual sales results in this sheet: a user would pick a sales representative's name, the month, and the product line from a series of pop-up menus, and then enter the sales result for that month; the input sheet would copy that figure to the proper spot on the supporting worksheet.

In Excel 2004, I could have done all of this relatively easily with a macro. Neither Excel 2008 nor Numbers has macro support, however. Excel 2008 does have AppleScript support, but AppleScripts cannot be assigned to buttons on a worksheet, as macros could in Excel 2004; instead, they must be run from the Scripts menu. Additionally, building this functionality in AppleScript requires much more programming than do Excel 2004's macro

10 KEY DIFFERENCES

Excel/Numbers

	Excel	Numbers
APPLESCRIPT AND AUTOMATOR SUPPORT	●	❍
ARRAY FORMULAS	●	❍
BUILT-IN FUNCTIONS (NUMBER OF)	346	168
CONDITIONAL FORMATTING	●	●*
CURRENTLY COPIED CELL IS HIGHLIGHTED	●	❍
CUSTOM NUMBER AND TEXT FORMATS	●	❍
FREE-FORM PAGE-LAYOUT ABILITIES	❍	●
KEYBOARD INPUT OF RANGES IN FUNCTIONS	●	❍
PERFORMANCE WITH LARGE DATA SETS	Excellent	Poor
PIVOT TABLES	●	❍

● = yes. ❍ = no. *Numbers doesn't support formulas in conditional formats; Excel does.

ALTERNATIVES

Spreadsheets

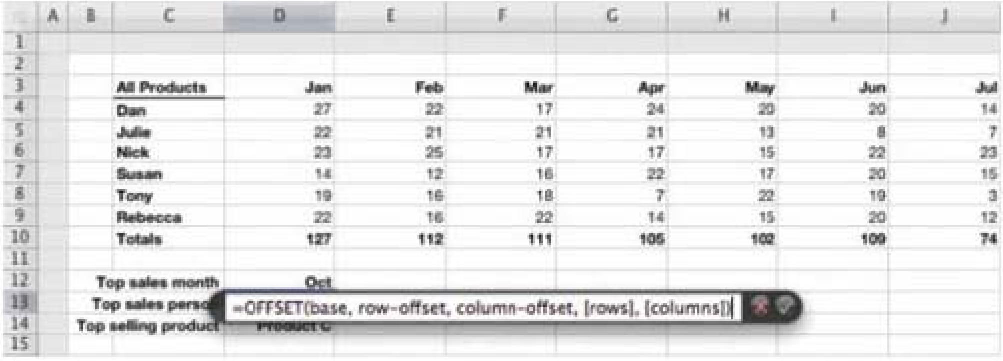
As with word processors, you do have options beyond those in Office 2008 and iWork '08.

Say you want to run Excel macros, which the 2008 version of the product can't do. Right now, your best option is to stick with Excel 2004. (Or you can use AppleScript in Excel 2008 to try to re-create the functionality of your old macros; see this month's *Geek Factor*, page 82.)

NeoOffice (free; www.neooffice.org), a port of OpenOffice that runs natively in OS X, supports Excel 2004's macros, at least to some degree. (Some of my macros worked perfectly; others didn't.) It can also open Excel 2008's and the Windows-only Excel 2007's new .xlsx file format, and it offers excellent compatibility with Excel functions.

OpenOffice (free; www.openoffice.org) is also developing a native OS X port, but it's a work in progress; you may experience some compatibility issues. Like NeoOffice, it's compatible with Excel functions, but it doesn't properly handle the new Office 2007 and 2008 file formats.

If you're willing to pay, Mariner Calc ($$$; macworld.com/3417) can handle most basic to intermediate needs, though it can't import all Excel worksheets and doesn't offer full formula compatibility.



All Products	Jan	Feb	Mar	Apr	May	Jun	Jul
Dan	27	22	17	24	20	20	14
Julie	22	21	21	21	13	8	7
Nick	23	25	17	17	15	22	23
Susan	14	12	16	22	17	20	15
Tony	19	16	18	7	22	19	3
Rebecca	22	16	22	14	15	20	12
Totals	**127**	**112**	**111**	**105**	**102**	**109**	**74**

Top sales month: Oct

Top sales perso

=OFFSET(base, row-offset, column-offset, [rows], [columns])

Top selling product

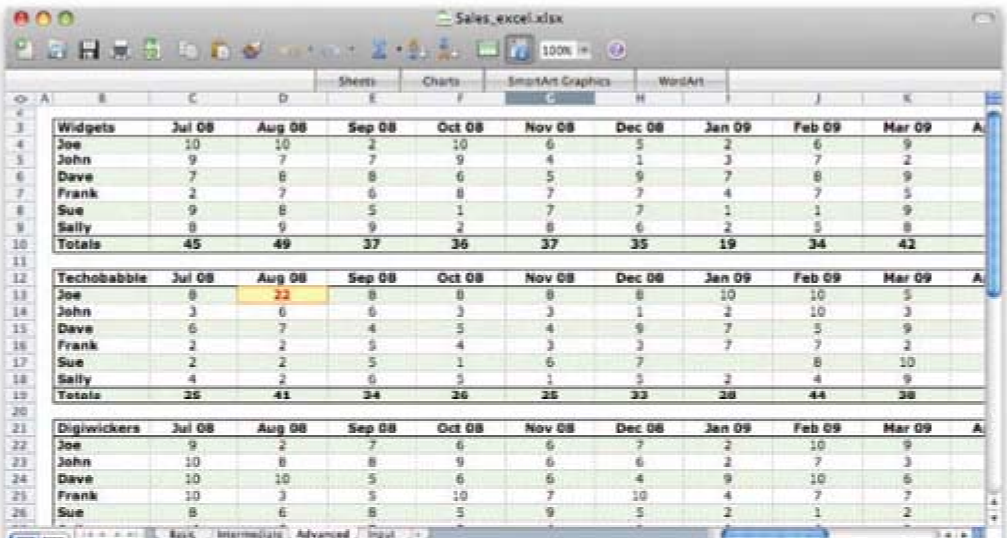
Numbers Formulas When you use Numbers' Insert Function dialog box to insert a formula, it places the variables for that formula directly in the cell—so you must then overwrite them by hand.

tools—because you can't record an AppleScript as you could a macro. Numbers, lacking both macros and AppleScript support, doesn't seem to have any way of creating such a function.

Given these problems in both programs, I didn't pursue this avenue any further. It's disappointing that two much newer programs have more difficulty with this relatively simple task than Excel 2004 does.

> **I found it much simpler to work with Excel in all phases of my project.**

Next, I wanted to highlight the absolute best sales month for the combined product line. In Excel, I could do this with a conditional format set up to check if a given cell in the range is equal to the maximum value within that range. The end result makes it easy to spot the top month and representative—and if there's a tie, Excel will automatically highlight all top results. In Numbers, though, conditional formats can't contain calculations, so it was impossible to achieve the same result. A formula in a separate cell sort of worked, but it couldn't show more than one value in the event of a tie.



Sales_excel.xlsx

Widgets	Jul 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08	Jan 09	Feb 09	Mar 09
Joe	10	10	2	10	6	5	2	6	9
John	9	7	7	9	4	1	3	7	2
Dave	7	8	8	6	5	9	7	8	9
Frank	2	7	6	8	7	7	4	7	5
Sue	9	8	5	1	7	7	1	1	9
Sally	8	9	9	2	8	6	2	5	8
Totals	**45**	**49**	**37**	**36**	**37**	**35**	**19**	**34**	**42**

Techobabble	Jul 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08	Jan 09	Feb 09	Mar 09
Joe	8	22	8	8	8	8	10	10	5
John	3	6	6	3	3	1	2	10	3
Dave	6	7	4	5	4	9	7	5	9
Frank	2	2	5	4	3	3	7	7	2
Sue	2	2	5	1	6	7		8	10
Sally	4	2	6	5	1	5	2	4	9
Totals	**25**	**41**	**24**	**26**	**25**	**33**	**28**	**44**	**38**

Digiwickers	Jul 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08	Jan 09	Feb 09	Mar 09
Joe	9	2	7	6	6	7	2	10	9
John	10	8	8	9	6	6	2	7	3
Dave	10	10	5	6	6	4	9	10	6
Frank	10	3	5	10	7	10	4	7	7
Sue	8	6	8	5	9	5	2	1	2

Conditional Formatting It's easy to highlight the highest sales month for any representative, using calculations in Excel's conditional-formatting rules. You can't do this with Numbers.

Finally, I did a fair amount of work tweaking the look of the spreadsheet, to get it ready to present to the boss. Numbers has the edge thanks to its abilities with gradients, transparency, and cell backgrounds, though Excel 2008 is much better than its predecessor. Excel gets the overall win, however, due to its ability to create custom number and date formats—something you can't do in Numbers.

THE FINAL WORD

In general, I found it much simpler to work with Excel in all phases of my sample project. Although Numbers has some stunning templates, its shortcomings make it more difficult to use when you leave template-land. Those failings include its inability to simply show a formula's variables as you enter it; its lack of keyboard support in selecting ranges when you're entering formulas; its lack of custom number and date formats; and its limited conditional formatting abilities. There's no doubt that I can create a prettier spreadsheet in Numbers, but Excel offers more formulas, features, and tools to help with actually building the spreadsheet.

Rob Griffiths is a senior editor at *Macworld*.

PowerPoint 2008 VERSUS Keynote '08

BY FRANKLIN N. TESSLER

To compare Microsoft PowerPoint 2008 (●●●●; macworld.com/3348) and Keynote '08 (●●●●½; macworld.com/3043), I used both programs to create a presentation on space exploration, starting with built-in templates and then adding some special effects.

★ROUND 1★

LAYOUTS, TOOLS

While both programs provide templates that help beginners—or anyone who's racing to meet a deadline—cook up a presentation quickly, Keynote's approach to starting a new presentation is more straightforward.

By default, when you open a new document, Keynote lets you choose from an ample collection of themes. These consist of sets of color-coordinated master slides, with each master specifying the appearance and layout of slide elements, and with placeholders for titles, subtitles, pictures, and other content. Pick a theme, and you're good to go.

In contrast, PowerPoint forces you to choose themes and layouts separately. Slide Themes, the first button in the Elements Gallery, lets you specify the presentation's colors, fonts, and backgrounds; Slide Layouts, the second button, lets you determine the composition of elements on each slide. Although PowerPoint's separation of themes and layouts is more flexible and lets you make global changes more readily, it's easy to be overwhelmed by the huge number of possible combinations.

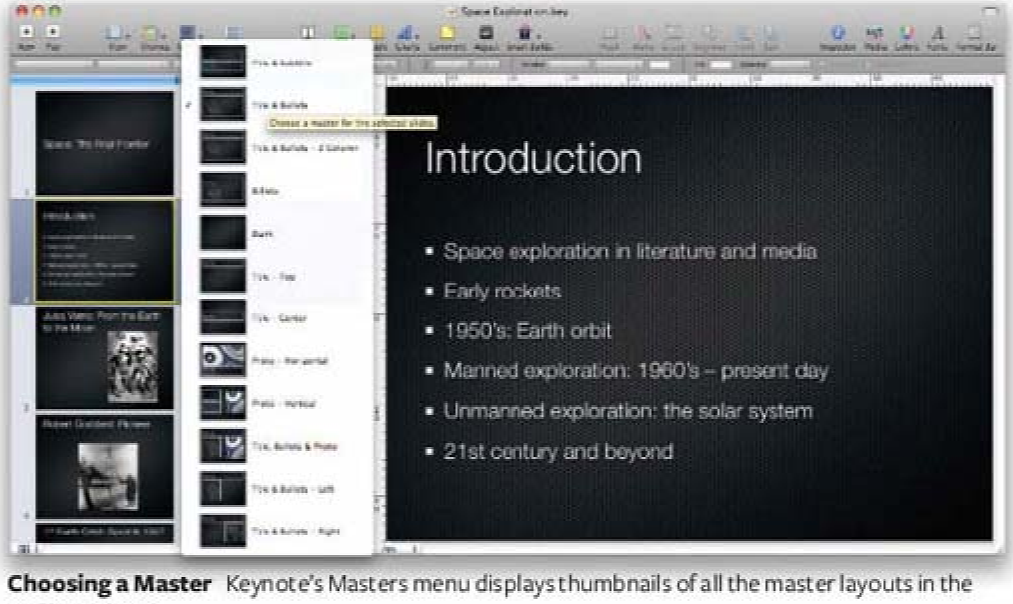
To create a title slide, I chose appropriate layouts from Keynote's drop-down Masters menu and PowerPoint's Slide Layouts gallery.

Next, I added an introductory slide by choosing a master with placeholders for a title and bullets. When I'm showing a series of bullet points, I like to highlight each item as I'm talking about it, dimming the others. Both programs let me do so easily: PowerPoint's Toolbox and Keynote's Inspector consolidate formatting and other functions in tabbed floating windows. The Toolbox provides a wider gamut of features than the Inspector—it lets you insert shapes and special text symbols, for example—but it's a bit busy, with vertically stacked sections that change to accommodate the selected object. Keynote's Inspector windows are less cluttered, and I could open as many as I needed.

I finished off my basic presentation with a series of text and picture slides, starting with a layout that had a title placeholder at the top. I added pictures to slides by dragging them directly from the Finder. Then I switched to the slide-sorter view—which displayed the entire presentation in thumbnail form—to review my work and rearrange the slides.

Although PowerPoint provided extra magnification levels (six to Keynote's three), Keynote's largest thumbnails were bigger than PowerPoint's, so they were easier to read. I also preferred Keynote's transitions (the special effects that play between slides): PowerPoint offered more choices, but Keynote's were more appealing and ran more smoothly.

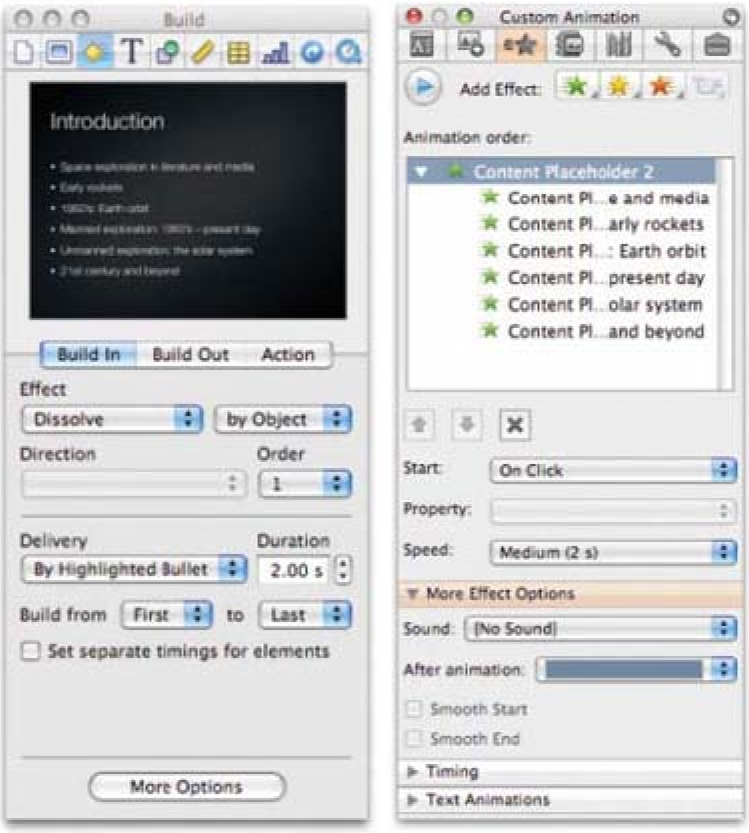
Overall, for getting a basic presentation up and running quickly, I'd give Keynote the edge.



Introduction

- Space exploration in literature and media
- Early rockets
- 1950's: Earth orbit
- Manned exploration: 1960's – present day
- Unmanned exploration: the solar system
- 21st century and beyond

Choosing a Master Keynote's Masters menu displays thumbnails of all the master layouts in the current theme.



Effect: Dissolve, by Object

Direction:

Order: 1

Delivery: By Highlighted Bullet

Duration: 2.00 s

Build from First to Last

☐ Set separate timings for elements

Start: On Click

Property:

Speed: Medium (2 s)

Sound: [No Sound]

After animation:

☐ Smooth Start

☐ Smooth End

Animated Bullets You've got plenty of options for animating bullet points in Keynote's Build Inspector (left) and PowerPoint's Custom Animation tab in the Toolbox (right).

★ROUND 2★

PICTURES, MULTIMEDIA

PowerPoint took that edge back when it came time to kick the presentation up a notch. I decided to apply some special effects to the pictures that I'd already placed. PowerPoint has a more extensive library of effects, including lens distortions and other transformations. I also appreciated its broader range of shadowing options, including perspective shadows that I used to make one of the pictures look as though it were standing on a solid floor.

I also elected to add some visual punch by showing our home planet against a starry sky. I began by importing pictures of a star field and of Earth from another project onto a new slide. Unfortunately, the shot of Earth had a black background, and I was too lazy to fire up Adobe Photoshop to erase it. Both PowerPoint and Keynote can delete unwanted backgrounds, but Keynote's Alpha tool is more versatile. (It works only on contiguous pixels and lets you adjust its sensitivity by dragging; PowerPoint renders every pixel of a selected color transparent, so it works well only if the foreground object doesn't have any colors that match the background.)

Next, to illustrate milestones in manned spaceflight, I imported a QuickTime movie of the launch of Apollo 11. Inserting movies is simple in both applications, but Keynote provides finer control over movies as they're playing. Although you can start and stop playback during PowerPoint slide shows, you can't pause and scroll through clips the way you can with Keynote. And the QuickTime Inspector in Keynote allows you to loop movies in either direction, something you can't do in PowerPoint. (Amazingly, though, Keynote doesn't support QuickTime VR, which PowerPoint does.)

To provide a summary of all the Apollo launches, I decided to add a table—often more effective than bulleted text for presenting numeric information. Both Keynote and PowerPoint let you build tables without invoking a separate application, but PowerPoint makes it easier. In Keynote, tables adopt colors and other attributes that complement the current theme, but you can't tell what they'll look like in advance. Like Keynote, PowerPoint matches tables with themes, but its Table Styles gallery lets you pick the style you like.

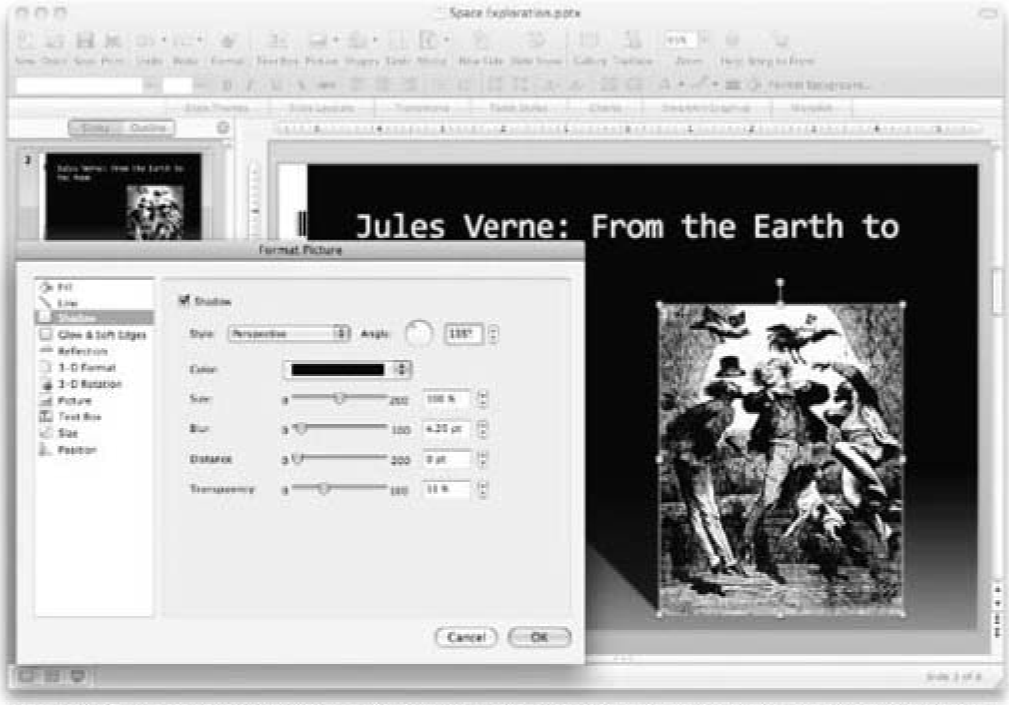
For sprucing up a basic presentation, both programs have their strengths. I'd have to call this phase of the comparison a tie.

★ROUND 3★

ANIMATIONS, SHARING

Last, to illustrate the concept of an interplanetary voyage, I needed to simulate a spacecraft traveling from Earth to Mars. Keynote was the clear winner here, since its Action Build feature let me define a precise trajectory. Although you can move objects in PowerPoint too, you can't specify the path that they will follow; that's a glaring omission, especially since this ability has been available in PowerPoint for Windows for years.

I used another clever Keynote feature, Smart Builds, to show Earth and some of the other planets in our solar system with a turntable effect. With each mouse click, the next planet rotated into view as the others dimmed and receded



Jules Verne: From the Earth to

Format Picture Advanced picture-formatting options in PowerPoint include perspective shadows and 3-D effects.

ALTERNATIVES

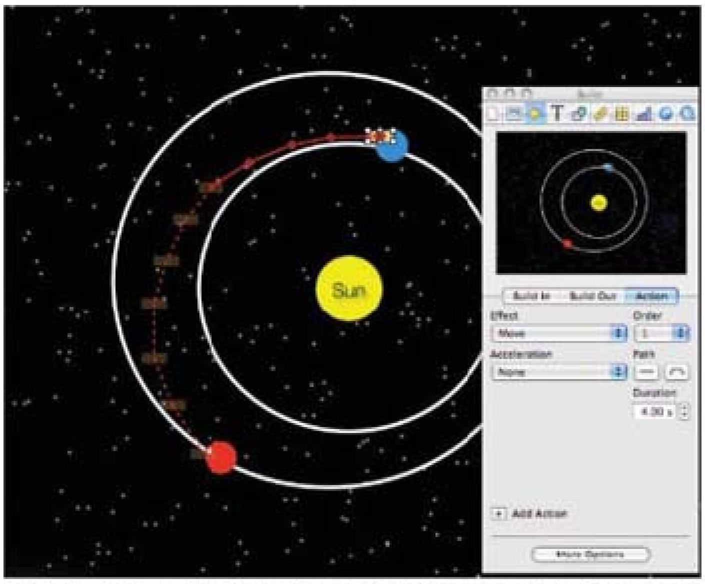
Presentations

The two open-source office suites—OpenOffice and NeoOffice—include presentation modules that are compatible with PowerPoint. I put both through their paces by opening slide shows created with various Mac and Windows versions of PowerPoint, including the space presentation that I created for this article. Both applications handled older PowerPoint files (with a *.ppt* suffix) with varying success. Neither was able to open PowerPoint 2008 files (in the new .pptx format). If you're collaborating on complex presentations with other Mac or Windows users, you may run into problems as you transfer files back and forth.

If you're building presentations from scratch, both OpenOffice and NeoOffice will work, as long as you're willing to live with some limitations. Because of its dependence on the Unix X11 graphic interface, OpenOffice feels decidedly kludgy and un-Mac-like. NeoOffice feels more familiar, and it's easier to work with. But its lack of support for sounds and movies is a significant drawback for now (QuickTime support is promised soon), and you won't have PowerPoint 2008's extensive library of themes and slide layouts at your fingertips. Still, it's worth checking out if your presentation needs are modest.

Google Docs is an enticing newcomer that lets you create, collaborate on, and display presentations over the Web. In its current incarnation, however, Google Docs' presentation features are much too limited: you can't work on documents larger than 10MB, for example, nor can you work with movies, sounds, or any type of animation. The program's reliance on the Web also means that you need to be online to access your presentations.

Finally, if your presentations include pictures with only a smattering of text, consider iPhoto for your slide shows. You can use Adobe Photoshop or any other graphics program to create text slides, and then import them into iPhoto for display.



Keynote Animation Animation paths in Keynote consist of a series of line segments or curves that you draw by clicking and dragging.

into the background, an effective way to show more pictures than I could fit comfortably on one slide.

Of course, the real test of a presentation is how effectively it works for an audience. Both PowerPoint and Keynote let me keep tabs on my progress and see what was coming up before everyone else did. I also created handouts with both programs, although neither supported as many formatting options as I would have wished.

But there are other considerations, too. It's not uncommon for speakers to collaborate on presentations or deliver them via someone else's computer, potentially a gigantic headache for Keynote users living in a PowerPoint-dominated world. Since its inception, Keynote has supported exporting presentations in PowerPoint format, but the results are usually less than ideal without manual cleanup.

10 KEY DIFFERENCES

PowerPoint/Keynote

	PowerPoint	Keynote
3-D OBJECTS	●	○
COLLECTION OF TABLE STYLES	●	○
CONVERT BULLETED TEXT TO GRAPHICS	●	○
CREATE CHARTS WITHOUT EXTERNAL APPLICATION	●*	●
ERASE IMAGE BACKGROUNDS	●	●*
IMAGE-EDITING TOOLS	●*	●
OPEN AND SAVE FILES IN OTHER PROGRAM'S NATIVE FORMAT	○	●
PERSPECTIVE SHADOWS	●	○
POINT-TO-POINT ANIMATION	○	●
VIEW SLIDE SHOW ON WINDOWS COMPUTER WITHOUT CONVERSION	●	○

● = yes. ○ = no. *Better.

Microsoft's adoption of XML-based file formats in PowerPoint 2008 only adds to the complication, especially if you have to share presentations with colleagues who use only PowerPoint for Windows; despite Microsoft's claims of interoperability, cross-platform sharing is not seamless. Keynote lets you export slide shows in QuickTime format with transparency, movies, and other dazzling graphics intact, but that works only if QuickTime is installed on the computer you're using to present.

For advanced presentation tools, I think Keynote is better than PowerPoint. When it comes to sharing presentations with colleagues using other tools, neither one is entirely effective.

THE FINAL WORD

PowerPoint has caught up to Keynote in many areas and surpassed it in some. But Keynote's workflow and overall feature set remain superior. Practically speaking, your choice of software probably depends more on the hardware you'll be using to deliver your presentation (and the software installed on it) than on the features of your authoring program. For that reason, unless Apple releases a Keynote player application for Windows, which isn't likely, PowerPoint may be a more sensible choice for many speakers. ☒

Franklin N. Tessler is a university professor and radiologist who lives in Birmingham, Alabama, and frequently writes and lectures about presentations.

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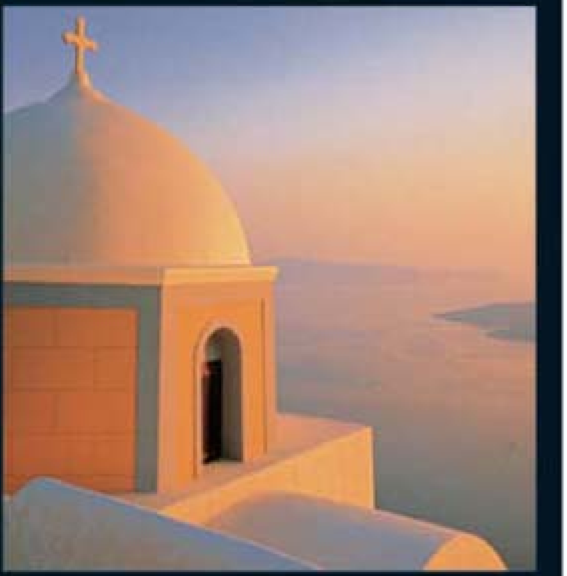
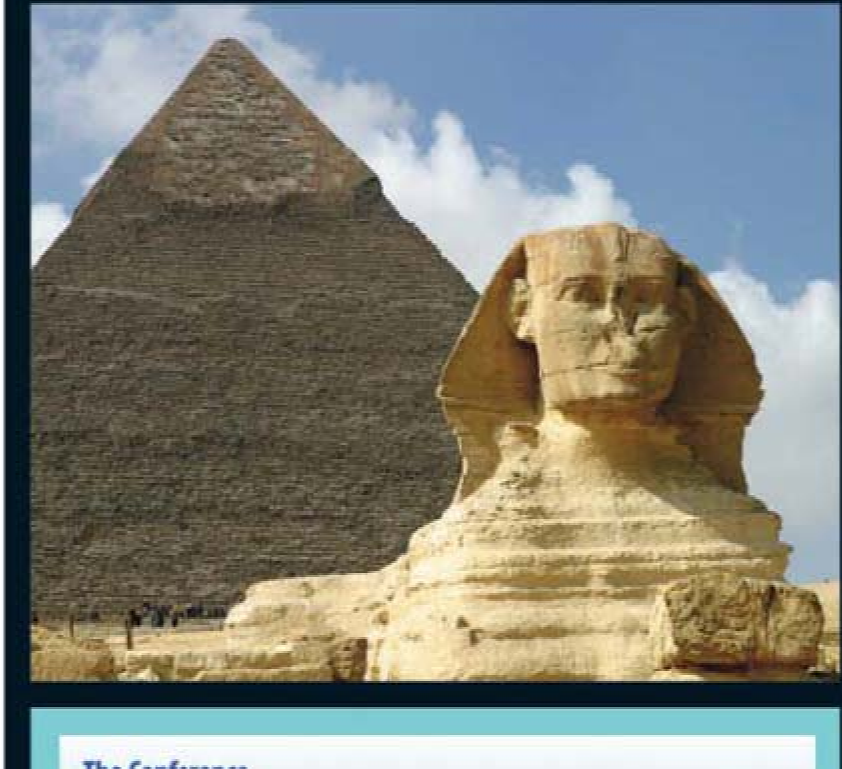


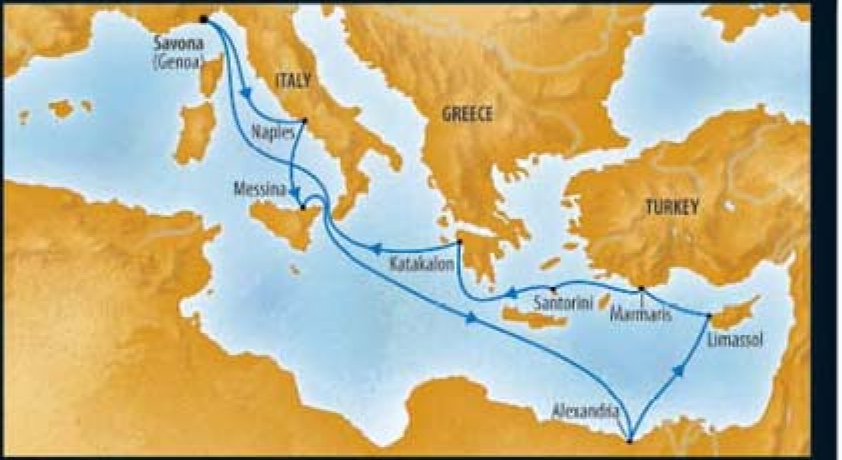
Sample Seminars

- Extreme Googling • "Black Belt Googler"
- The iPhone and Your Road Life
- Mac Productivity Bootcamp
- Do it Fast — Quicksilver Fast!
- Practicing Advanced Productivity Workflow
- One-Finger Automation Tricks in Leopard
- iPhone: The Missing Manual
- Useful Mac Gadgets — Free!
- Useful Mac Gadgets For Under $50
- On the Road: TiVo and Slingbox
- iLife '08 • iWork '08 • Inbox Zero
- Photo Workflow: Shoot and Edit Like a Pro!
- From Snapshot to Art
- Selected Bits o' Retouching Wisdom
- How to Handle 1000 Photos a Day
- Organizing Your "Digital Memories"
- What's Left in User Interfaces? (Keynote)

Speakers

Dan Frakes • Janet Hill
Lesa King • Merlin Mann
David Pogue • Randal Schwartz
Sal Soghoian • Bebo White





The Conference

Cruise prices vary from $1,349 for an Inside Stateroom to $3,699 for a Full Suite, per person. (Cruise pricing is subject to change.) Taxes are $31.78 per person. For those attending the conference, there is a $795 fee and includes all courses listed, any course materials, and two private InSight Cruises parties.

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Macworld

Find FILES Fast

Track down anything with these Spotlight strategies

Want to open documents without navigating through nests of folders? Looking to dig up a long-lost e-mail from an old friend? Need to find all the files you worked on last Friday? Spotlight can help. Introduced in Tiger, Spotlight gives you a quick and easy way to locate and open scattered files and misplaced documents, as well as programs, contacts, and events. And now that Leopard has arrived, Spotlight is even more powerful. With useful additions such as Boolean searches, new keywords that help you home in on more types of content, and the ability to search by specific dates, Spotlight is an indispensable tool for finding anything on your Mac. All you need to do is learn its tricks.

By Kirk McElhearn **Illustrations by Jesse Lefkowitz**

Spotlight 101

In case you're new to Spotlight, we'll begin with the basics. To start a Spotlight search, click on the magnifying-glass icon on the right side of the menu bar (or press ⌘-spacebar) to call up the Spotlight menu; then type one or more words—you don't have to worry about capitalization. Spotlight immediately starts looking for your search term in your files' names, in their content, and in hidden information called metadata, and it presents the matches it finds. As you type more of the word or phrase, Spotlight refines its results.

Navigate the Spotlight Menu

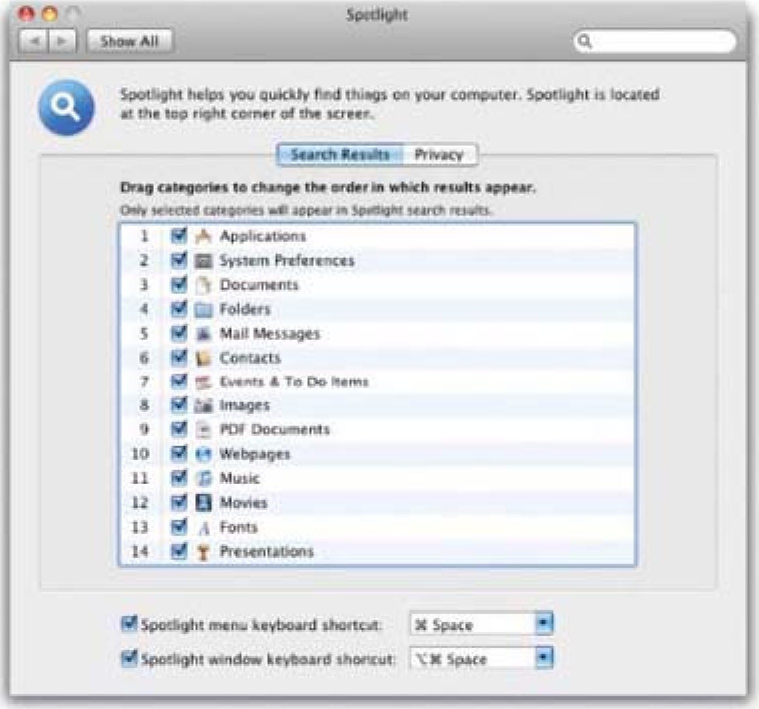
Spotlight sorts results into categories such as Documents, Folders, Images, and Messages. Depending on what you're searching for, you may also see application-specific categories such as Contacts (for entries in Apple's Address Book or Microsoft Entourage), Events & To-Dos (for iCal data), and Webpages (for Safari bookmarks and history).

Within each category, results are organized by when they were last viewed or saved, so the things you've worked on recently will be at the top of the lists. The Spotlight menu also highlights a result called the Top Hit—the one Spotlight considers most relevant. If the item you're searching for turns out to be the top hit, you can open it by simply pressing the return key.

To launch a different file, use the up- or down-arrow keys to navigate to it, or click on it with your mouse.

Customize Spotlight

If you'd like to prioritize certain types of files, or if you want to exclude some sections of your Mac entirely, you can do so by choosing Spotlight Preferences from the bottom of the Spotlight menu.



Spotlight helps you quickly find things on your computer. Spotlight is located at the top right corner of the screen.

Drag categories to change the order in which results appear.

Only selected categories will appear in Spotlight search results.

1 ☑ Applications
2 ☑ System Preferences
3 ☑ Documents
4 ☑ Folders
5 ☑ Mail Messages
6 ☑ Contacts
7 ☑ Events & To Do Items
8 ☑ Images
9 ☑ PDF Documents
10 ☑ Webpages
11 ☑ Music
12 ☑ Movies
13 ☑ Fonts
14 ☑ Presentations

☑ Spotlight menu keyboard shortcut: ⌘ Space
☑ Spotlight window keyboard shortcut: ⌥⌘ Space

Customize Categories In Spotlight's preference pane, you can choose the order in which categories appear in the Spotlight menu, or you can hide categories completely.

Set Categories The Spotlight menu displays categories according to their order in the Search Results section of Spotlight's preference pane (see "Customize Categories"). You can drag categories around to alter their order—for example, if you often search for PDF documents, you might want to move that category to the top of the results list. You can also choose to not display certain categories at all, by deselecting them.

Exclude Locations By default, Spotlight indexes your entire Mac and every drive you connect to your Mac: external hard drives, writable CDs and DVDs, and even your iPod (if it's set to appear as an external hard drive). But you may want to keep some of your sensitive files from turning up in searches (especially if you share a user account with someone). Or perhaps it's just a matter of expediency: you may not want Spotlight to waste time searching backups or archives that live on a second partition or hard drive.

To exclude a folder or volume, go to Spotlight's preference pane, click on the Privacy tab, and drag the folder or volume to this list (or click on the plus sign [+] and select the item).

If you want to exclude an external drive, first connect the drive, and then add it to the list. When you do this, Spotlight deletes any current index for the drive and adds the drive to a list of areas it won't index or search.

If you later need to search that external hard drive, connect it, remove it from the Privacy list, and then wait while Spotlight reindexes it.

TIP

Take a Quick Look

If your search turns up several likely candidates, use Leopard's Quick Look feature to take a peek inside each one without going through the hassle of opening any additional programs. With the first search result highlighted in the Finder search window, simply press the spacebar. Once you have activated Quick Look, you can click on other files to see their contents immediately.

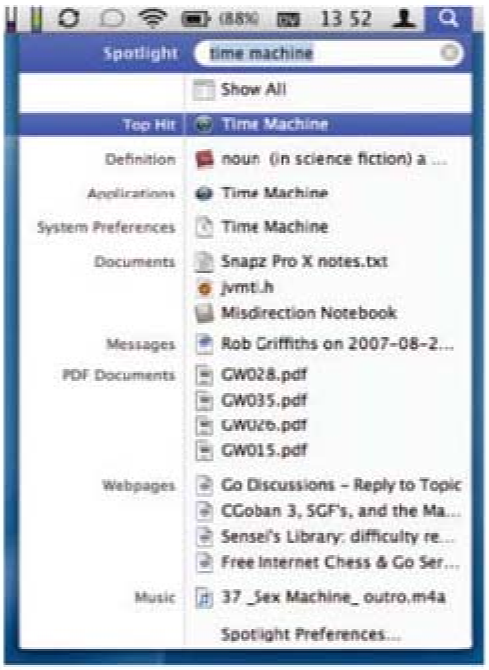
Create Good Queries

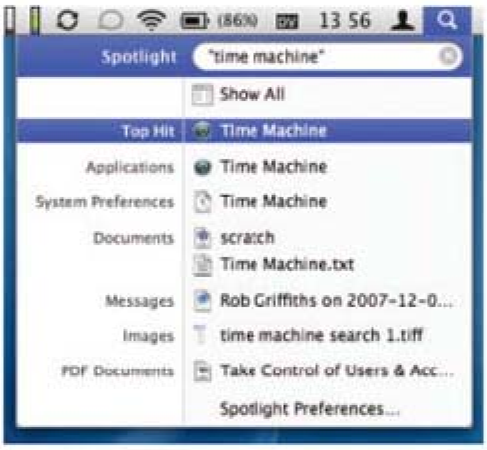
On the surface, searching with Spotlight is pretty straightforward. But if your search involves multiple terms, or if you need to narrow down your results to dig up a particularly elusive file, knowing how to put together a good search query will pay off. By mastering a few simple tricks, you can limit your search to specific types of data, exclude terms, and more—helping Spotlight locate exactly what you need.

Fix Your Phrasing

Every Spotlight query is an AND search by default. This means the program looks for files containing all the words you type. For instance, if you enter `time machine`, Spotlight seeks out anything that contains both the word *time* and the word *machine*. So the search will turn up any files that mention Leopard's new Time Machine feature, as well as e-mails from your IT administrator discussing the best time to swing by and fix your machine.

You can narrow down the search results by using quotation marks—this tells Spotlight that the words must appear next to one another. If you type `"time machine"`, Spotlight will look only for files that contain the exact term inside the quotation marks. It will find Time Machine.doc and any file containing the term *time machine*, but it will skip over your presentation on the evolution of machines through time (see "Words or Phrases"). You don't even have to use both quotation marks; typing only the first one tells Spotlight that the words following it must appear together. However, if you want to add more search terms after the phrase, you'll need to add the closing quotation mark.


13 52
Spotlight
time machine
Show All
Top Hit
Time Machine
Definition
noun (in science fiction) a ...
Applications
Time Machine
System Preferences
Time Machine
Documents
Snapz Pro X notes.txt
jvmti.h
Misdirection Notebook
Messages
Rob Griffiths on 2007-08-2...
PDF Documents
GW028.pdf
GW035.pdf
GW026.pdf
GW015.pdf
Webpages
Go Discussions – Reply to Topic
CGoban 3, SGF's, and the Ma...
Sensei's Library: difficulty re...
Free Internet Chess & Go Ser...
Music
37 _Sex Machine_ outro.m4a
Spotlight Preferences...


13 56
Spotlight
"time machine"
Show All
Top Hit
Time Machine
Applications
Time Machine
System Preferences
Time Machine
Documents
scratch
Time Machine.txt
Messages
Rob Griffiths on 2007-12-0...
Images
time machine search 1.tiff
PDF Documents
Take Control of Users & Acc...
Spotlight Preferences...

Words or Phrases Type `time machine` in the Spotlight search menu, and you'll get a list of every file containing both words (left). If you use quotation marks around the term, you can limit the search to just files that contain the exact phrase *time machine*—a much smaller group (right).

Apply Boolean Searching

One of the biggest additions to Spotlight is support for true Boolean searching, which uses logical operators (AND, OR, and NOT) to pinpoint results.

For instance, if you type `"time machine" OR morlocks`, you'll get references to Leopard's backup tool, as well as any files related to H. G. Wells's fictional species. To find files that include *time machine* but make no mention of H. G. Wells, type `"time machine" NOT Wells`. When you perform a Boolean search, make sure to type operators in capital letters.

Use Metadata

In addition to scouring your files' names and contents, Spotlight peruses metadata—file information generated by the program or device that created the file. For example, a digital photo's metadata may include information about the camera used to take the photo and about how the photo was taken: the camera type, focal length, color space, exposure time, and so on. If you want to find all photos taken with a certain camera, just enter its name or model number in the search field.

To see what sort of metadata a file is storing, select it in the Finder, press ⌘-I to open the Get Info window, and click on the triangle next to More Info (see "Check Metadata"). However, you're not limited to

TIP

Reboot Spotlight

Sometimes Spotlight refuses to find what you're looking for, even though you know the file exists. This problem occurs when Spotlight's indexes get out of sync. To set things right, try rebuilding the indexes—this forces Spotlight to scour your drive again and serve up the right search results.

Open the Spotlight preference pane. Click on the Privacy tab, and then drag your hard drive to the list of locations you don't want Spotlight to search. Wait a few seconds; then select the drive and click on the minus-sign (–) button. By adding the drive to this list, you force Spotlight to erase the index; when you remove it from the list, Spotlight notes that the drive is again available for indexing and starts chugging away at that task.

Keep in mind that if you have a ton of files, rebuilding the index may take quite a bit of time. If you try to use the Spotlight menu while it's indexing, you'll get a message saying that it's busy indexing your drive. Once it's finished, your searches should be more efficient.

the metadata you see here. You can add your own keywords to any file. In the Get Info window, click on the triangle next to Spotlight Comments. In the text field that appears, enter any keywords that might help you in future searches, such as the project the file is related to or the last name of a person you associate with it. For example, by adding the comment `HOUSE08` to any files having to do with the purchase and remodeling of your new home, you'll be able to find all those files with one easy search. If you use this trick often, you may want to create an Automator workflow that lets you apply the same comment to multiple files at once (see "Automate Spotlight Comments").

My Kind of Keyword

Unlike Tiger's Spotlight, which dealt with only a limited number of `kind:` keywords, the new Spotlight recognizes anything that displays in the Finder's Kind column (in List view). The following `kind:` keywords may come in handy.

TO SEARCH FOR ...	USE ...
Aliases	kind:alias
Applications	kind:application, kind:applications, kind:app
Audio	kind:audio
Bookmarks	kind:bookmark, kind:bookmarks
Browser history	kind:history
Contacts	kind:contact, kind:contacts
E-mail messages	kind:email, kind:emails, kind:mail message
Folders	kind:folder, kind:folders, kind:fol
Fonts	kind:font, kind:fonts
iCal Events	kind:event, kind:events
iCal To Do items	kind:todo, kind:todos, kind:to do
Images	kind:image, kind:images
JPEG files	kind:jpeg
Keynote files	kind:keynote
Movies	kind:movie, kind:movies
MP3 files	kind:mp3
Music	kind:music
Numbers documents	kind:numbers
Pages documents	kind:pages
PDF files	kind:pdf, kind:pdfs
PowerPoint files	kind:powerpoint
Preference panes	kind:preference, kind:preferences
Presentations	kind:presentation, kind:presentations
QuickTime files	kind:quicktime
TIFF files	kind:tiff
Word documents	kind:word

The Key to Keywords

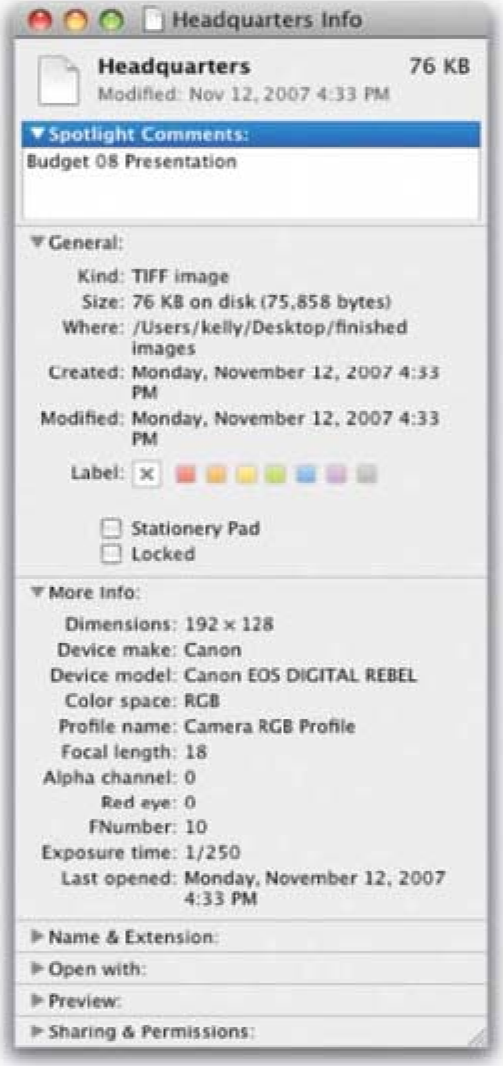
Even when you know what you're looking for, you may get an overwhelming number of search results. To help limit searches to certain file types or time periods, use one of the many useful keywords that Spotlight understands. Place the appropriate keyword and a colon in front of your search term (but don't accidentally insert a space before or after the colon—a common mistake).

Here how to take advantage of Spotlight's keywords:

Search for File Names If you know the name of the file you're looking for, you can limit your search to file names by using the `name:` keyword. For instance, when you type `name:machine`, Spotlight will find only files that contain the word *machine* in their names (though your search results may also turn up bookmarks, iCal events, and other items). As with regular search queries, you'll need to use quotation marks to identify phrases—for example, `name:"time machine"`.

Find an Author If you can't remember the contents of a file but you know the name of the person who created it, you can try using the `author:` keyword. To look for a document written by your boss, Herbert, enter `author:herbert` in the search field. There's just one catch: Spotlight will find only files produced by programs that save this attribute—Mail, iChat, Word, Excel, Pages, Numbers, and a few others.

Check the Date Looking for a file that was created during a specific time period? Spotlight has a handle on dates. Typing `date:today` will bring up files you created, read, received, or opened today. You can also use the `date:` keyword with `yesterday` and `tomorrow` (for the latter, Spotlight restricts its results to iCal events and to-do items).



Headquarters 76 KB
Modified: Nov 12, 2007 4:33 PM

Spotlight Comments:
Budget 08 Presentation

General:
Kind: TIFF image
Size: 76 KB on disk (75,858 bytes)
Where: /Users/kelly/Desktop/finished images
Created: Monday, November 12, 2007 4:33 PM
Modified: Monday, November 12, 2007 4:33 PM
Label: ☒

☐ Stationery Pad
☐ Locked

More Info:
Dimensions: 192 × 128
Device make: Canon
Device model: Canon EOS DIGITAL REBEL
Color space: RGB
Profile name: Camera RGB Profile
Focal length: 18
Alpha channel: 0
Red eye: 0
FNumber: 10
Exposure time: 1/250
Last opened: Monday, November 12, 2007 4:33 PM

Check Metadata The Get Info window displays a number of interesting tidbits about this TIFF file, including the camera and the focal length used to capture the image. You can also add your own search terms in the Spotlight Comments field.

The latest version of Spotlight also lets you specify more parameters (whether a file was created or modified on a certain date), as well as enter an exact date or a range of dates. For example, you can type `created:12/25/07` to find files authored on that date; type `modified:<11/30/06` to look for files changed before that date; or type `created:1/1/06-12/31/06` to locate files created between these two dates. Unfortunately, `date:` keywords don't seem to work correctly all the time.

Search by Kind One of the most useful ways to narrow down a search is by using the `kind:` keyword. This allows you to restrict your list of results to a certain file format. For instance, if you type `time machine kind:pdf`, Spotlight will pull up only PDF files containing the words *time* and *machine*. You can also limit your search to e-mail messages, music files, System Preferences, applications, and more.

While the original Spotlight recognized only a limited number of file types, the Leopard version can look for files created by specific applications, as well as certain file formats. Searching for `kind:mp3` or `kind:tiff` will find files in one of those formats, and searching for `kind:pages` or `kind:powerpoint` will show only documents created in one of those programs. For a list of useful keywords, see "My Kind of Keyword." But remember, for the keywords to work, you must have the appropriate categories enabled in Spotlight's preferences.

Spotlight's Bag of Tricks

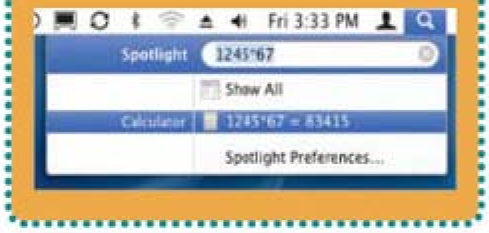
» Better search functionality is the main attraction of Leopard's new and improved Spotlight. But it has other clever tricks that may come in handy.

Instant Dictionary Need the definition for *tarradiddle*? Look it up in Spotlight. Whenever you type a word into the Spotlight menu, a short definition appears in the list of results. Hover your cursor over this definition to view the full definition in a tooltip.

Program Launcher Applications now appear as top hits, so you can launch them much more quickly. To fire up Safari, type `saf` in the menu and press return.

Math Genius Type an equation into the Spotlight menu, and let your Mac do your math. For example, type `2*2`, and you'll get `4`. If you need the area of a circle with a diameter of 10 feet, type `pi*10`. Need the square root of 1,024? Enter `sqrt(1024)`. How about 64 squared? Just type `pow(64,2)`.

Unfortunately, Apple has yet to publish a list of such commands, so you'll have to memorize the basics for now.



1245*67

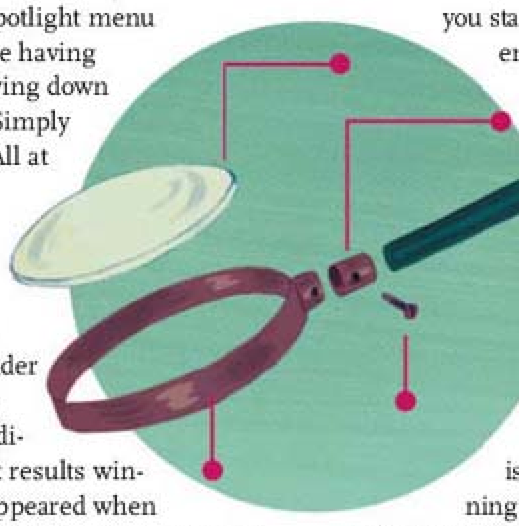
1245*67 = 83415

Advanced Searches

» Finding the files you need isn't always as simple as typing a few words. For large or complex searches, open a Finder window and run your query from there. This will let you access a wider range of attributes and search criteria, let you combine multiple criteria to define your searches more precisely, and give you more options for sorting and viewing your results.

Start a Search

There are several ways to access Spotlight via the Finder. You can open a generic Finder window and use the search box at the top, press ⌘-F to convert any open Finder window into a search window, or press ⌘-option-spacebar to open a brand-new search window. You can also access the Finder window after you've started a query in the Spotlight menu (useful if you're having trouble narrowing down your results). Simply choose Show All at the top of the menu, and Spotlight will display the results of that search in a Finder window. (Note that Tiger's dedicated Spotlight results window—which appeared when you chose Show All Results—is now a thing of the past.)



If the Finder displays your search results in Icon view, you'll probably want to switch to List view to get a better look at your results. You can then select the column headers to sort by name, kind, or date. If you prefer a more graphical approach, switch to Leopard's new Cover Flow view to look at previews of your files.

Hone Your Search

The Finder window's search bar contains several options for tailoring your results. You can click on the File Name button (new in Leopard), which forces Spotlight to search only for file names rather than names and contents. Or you can click on This Mac to change the target of your search from the folder you were in when you started searching, to your entire Mac. If your computer is connected to other Macs, click on the Shared button to search networked machines as well. When your Mac is connected to other Leopard machines, Spotlight will search both file names and file contents. But when your computer is connected to a Mac running Tiger, Spotlight will search only file names.

Add Criteria

On the right side of the Finder window's search bar is a plus-sign button. Clicking on it brings up two pull-down menus; by default, the first is set to Kind, and the second is set to Any—but there are other options to choose from.

To narrow down your results, start by selecting one of the criteria in the first menu, such as Created Date, Last Opened Date, or Name. Or choose Other to call up many more options, including Authors, Audio Bit Rate, Email Addresses, Recipients (people who received a certain file), Layers (names of Photoshop layers), and much more. Click on the check box next to an item if you want it to appear in the main pull-down menu for easy access in the future. As you select different options, the second menu changes dynamically so you can set the appropriate parameters (such as dates, numbers, and so on).

If you're looking for a particular type of file, keep the first menu set to Kind, and use the Any menu to select from Images, Documents, Movies, and more. (It's the same as using the `kind:` keyword, only you don't need to remember the keywords or manually enter them.) You can access more file types by choosing Other from the Any menu and then entering a kind of file in the text field, such as `Excel` or `MP3`.

Combine Multiple Queries

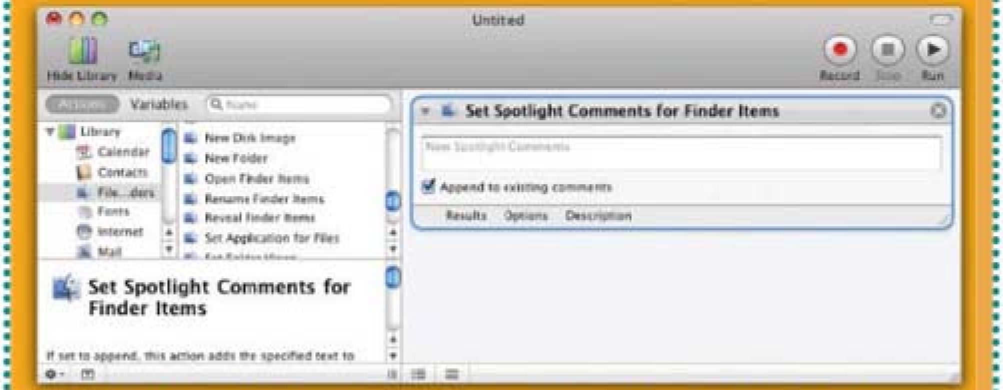
Sometimes a search requires more than one set of criteria to summon the results you want. Finder-window searches let you specify as many parameters as you want.

Say you want to search for all Microsoft Word documents you've created or modified in the past month. To do this, leave the first menu set to Kind, and set the Any menu to Other. Type `Word` in the text field to limit the search to Word documents. Click on the plus sign in the search bar to add another search parameter. Set the first two pull-down menus to Last Modified Date Is Within Last, enter `1` in the box, and select Months from the last menu. Spotlight will display all files you created or updated within the past month.

Although it's not obvious, you can also use Boolean search terms to set up a Finder search—to exclude criteria or to create an OR search. Once you have one condition set up, you can add a Boolean term to your next condition by option-clicking on the plus sign. The plus sign will turn into an ellipsis (. . .), and you'll get a new pull-down menu with options for Any (OR), All (AND), or None (NOT). (For more details, go to macworld.com/3457.)

Automate Spotlight Comments

Want to avoid the tedium of assigning the same Spotlight comments to multiple files? There's an easier way. Launch Automator, select Files & Folders from the Library column, and drag Set Spotlight Comments For Finder Items from the Actions list to the workflow pane. Click on Options, and enable the Show This Action When Workflow Runs option (see "Automate Comments"). Then select File: Save As Plug-In. Give the plug-in a name, such as Spotlight Comments, and select Finder from the Plug-In For pull-down menu. To put your new Automator workflow to use, simply control-click (or right-click) on the files. In the contextual menu, select More: Automator: Spotlight Comments (or whatever you named your plug-in item). A dialog box will appear, allowing you to add your comments to dozens of files at once.


Untitled
Hide Library
Media
Record
Stop
Run
Actions
Variables
Name
Library
Calendar
Contacts
File...ders
Fonts
Internet
Mail
New Disk Image
New Folder
Open Finder Items
Rename Finder Items
Reveal Finder Items
Set Application for Files
Set Spotlight Comments for Finder Items
New Spotlight Comments
Results
Options
Description

☑ Append to existing comments

If set to append, this action adds the specified text to

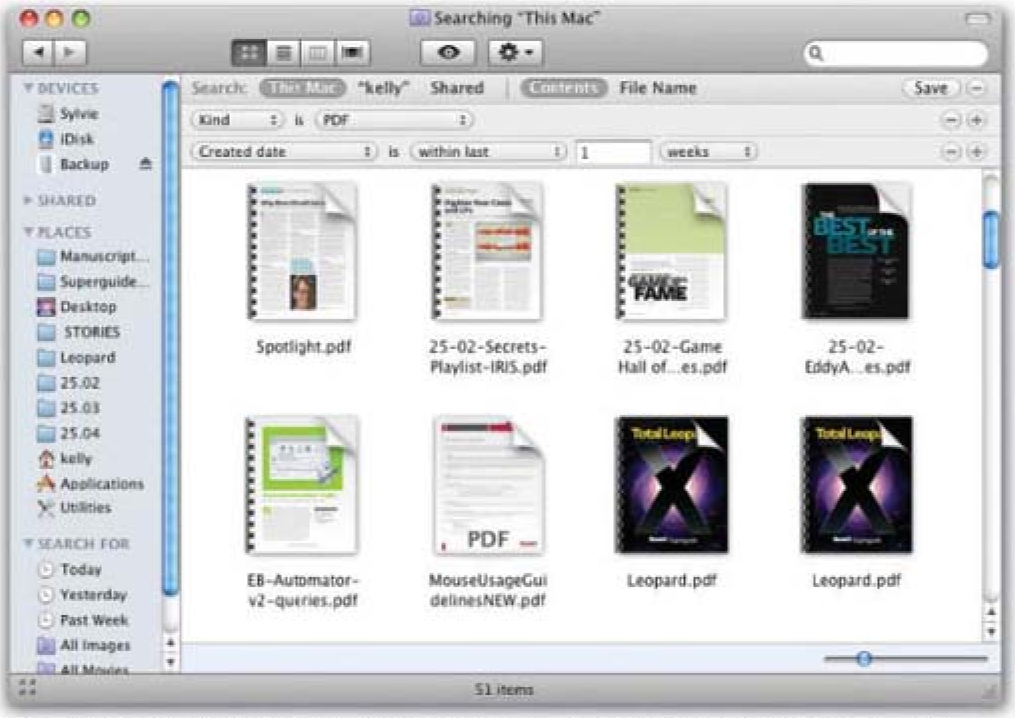
Automate Comments Adding Spotlight keywords doesn't have to be a hassle. This Automator action lets you apply comments to dozens of files simultaneously.

Save Searches for Later

What if you plan to search for recently created and updated Word files once a month, so you can back them up? There's no reason to manually type the same commands every time. You can save yourself some work by preserving the searches you run regularly—as smart folders.

To save your current search as a smart folder, click on the Save button in the search bar, enter a name for the folder, and select a location to save it in. Enable the Add To Sidebar option if you want to make your smart folder a permanent fixture in that locale. Whenever you open this smart folder, Spotlight will run the search again and update the results with any new files that fit the criteria.

If you want to change your search, or add or remove criteria, simply open up the smart folder, click on the action button (the gear icon), and select Show Search Criteria. Note that in Leopard, several default smart folders appear in the Search For section of the Finder's sidebar, including Today, All Documents, and All Images. You can use these folders as they are or modify them to suit your needs. ☒


Searching "This Mac"
DEVICES
Sylvie
iDisk
Backup
SHARED
PLACES
Manuscript...
Superguide...
Desktop
STORIES
Leopard
25.02
25.03
25.04
kelly
Applications
Utilities
SEARCH FOR
Today
Yesterday
Past Week
All Images
All Movies
Search:
This Mac
"kelly"
Shared
Contents
File Name
Save
Spotlight.pdf
25-02-Secrets-Playlist-IRIS.pdf
25-02-Game Hall of...es.pdf
25-02-EddyA...es.pdf
EB-Automator-v2-queries.pdf
MouseUsageGuidelinesNEW.pdf
Leopard.pdf
Leopard.pdf
51 items

Kind is PDF
Created date is within last 1 weeks

PDF Search When you need more searching power, press ⌘-F to search in a Finder window. For example, here is a search that collects all the PDF files created in the past week. When you're done, you can click on Save to store the search in the sidebar for future use.

Kirk McElhearn writes about Macs and much more. Visit his blog, Kirkville (www.mcelhearn.com), for information about Macs, iPods, books, music, and more.

> take our survey

○ a
○ b
● c

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Take our survey to join the Macworld Reader Panel and enter Macworld's 20-inch Intel 2 Core Duo iMac sweepstakes. By joining the panel you'll be periodically invited to participate in online research. And panelists get a chance to win every time they take part in a survey. Participation is open to all eligible Macworld readers 18 years old or over. Make a difference. Beginners, Experts, Switchers – let your voice be heard. We're listening.

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when? We need to hear from you by 4/30/08 in order to be included in the drawing.

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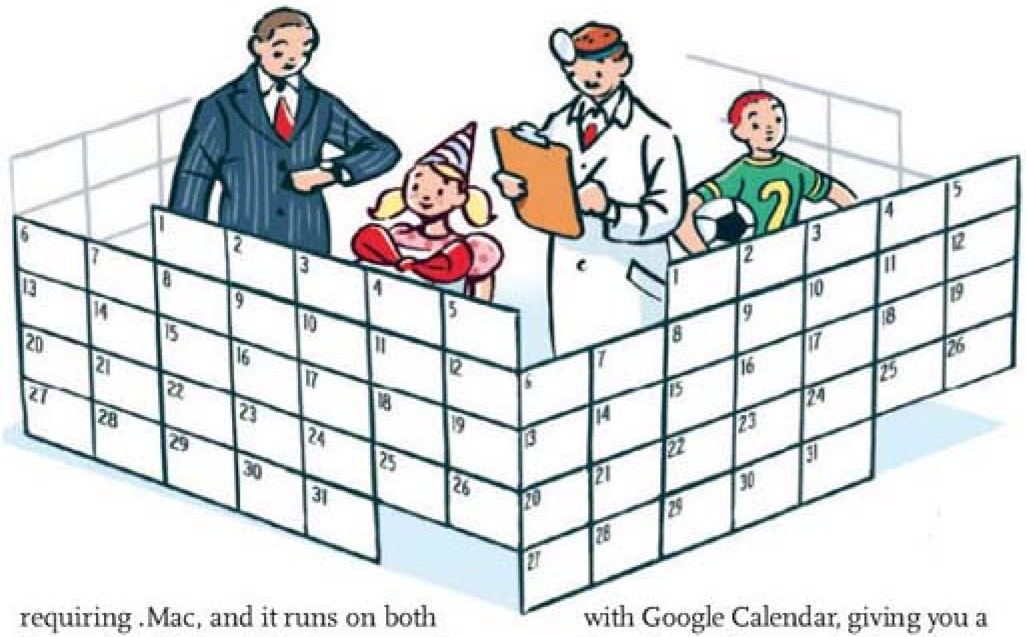
Corral Group Calendars

Coordinate family members' or colleagues' schedules with iCal 3

BY JOE KISSELL



It's sad but true: few of us are completely in control of our schedules. We can painstakingly structure our days in iCal, but our spouses, coworkers, and children will undoubtedly ask us to rejigger everything for dinner parties, client meetings, and soccer games. It makes a lot more sense to embrace the fact that we share our time with others.

The version of iCal included with OS X 10.5 (Leopard)—version 3—has some surprisingly powerful features for managing group schedules—whether you're trying to organize a family or a large business. You can now check other people's availability when you're choosing a meeting time, create calendars that more than one person can edit, schedule locations and resources, and access the same calendar from multiple computers (no more syncing headaches!) without using Apple's .Mac service ($100 per year; www.mac.com).

Most of these features require a CalDAV server (CalDAV is an open standard for accessing a calendar via WebDAV). If you, or your company, already have Mac OS X 10.5 Server (♦♦♦♦; ten-client edition, $499; macworld.com/3313) running on a server with its own domain name, setting up CalDAV is fairly easy. (See macworld.com/3366 for tips, or see "Free Calendar Server," for a less-expensive alternative.) Even if you don't have a server, you can take advantage of some group features on your local network by installing a copy of BusyMac's $20-per-computer BusySync (www.busymac.com) on each person's Mac. This software supports multiuser editing and synchronization without requiring .Mac, and it runs on both Leopard and Tiger. Whatever your situation, you can make group scheduling easier with iCal.

Server-Free Calendar Sharing

If you subscribe to Apple's .Mac, you've long been able to publish an iCal calendar that other people can view on their computers. Just click on the calendar and select Calendar: Publish. The trouble is, this method is a one-way street—people can subscribe to these calendars but can't alter them.

If this is your main problem, you don't need to set up a calendar server to solve it. BusySync replaces (or supplements) this publish-and-subscribe mechanism, allowing multiple users to edit a calendar over a local network (see "Flexible Sharing"). With some manual configuration, this can also work over the Internet (see macworld.com/3367). The $25-per-computer BusySync 2.0 (which should be available by the time you read this) will also let you synchronize iCal with Google Calendar, giving you a way to edit any of your calendars via the Web (a feature .Mac doesn't offer).

Get Set Up To set up BusySync, open its pane in System Preferences. If necessary, click on the Start BusySync button in the General tab. Click on the Publish tab to see a list of all your calendars. Select one and then choose the Publish option to share it. In the sheet that appears, leave both fields blank to give everyone read and write access, or enter a password in the Read Only Password or Read & Write Password field.

On another computer, open the BusySync preference pane, click on the Subscribe tab, select each shared calendar you want to access, and then enter the appropriate passwords if prompted. The calendars will appear right away in iCal's calendar list. When one person makes a change to a shared calendar, the new information is synchronized to other users' calendars, so each person's local calendar always has a complete,

ILLUSTRATION BY CHRIS GASH; ICON BY PAUL HOWALT

up-to-date schedule that they can access even if the computer sharing the calendar goes offline.

Avoid .Mac Conflicts You can use BusySync together with .Mac Sync, but if everyone in your family shares one .Mac user name, using both methods at the same time can result in duplicated calendar data. You can avoid this either by making sure each person uses a separate .Mac user name or by turning off .Mac Sync for Calendars (in the .Mac preference pane's Sync tab).

Set Up Your Full-Service Calendar

If you run a business, you may need sophisticated features that BusySync doesn't have. If that's the case, you'll want to use all of iCal's new group-scheduling features by connecting to a CalDAV server. After your CalDAV server is in order, each person in your group must configure iCal to access it.

Don't Forget Directory Services If you're using OS X Server, the first thing you need to do is turn on your computer's Open Directory support. Open Directory Utility (/Applications/Utilities). If your server is already listed there, with the message "The server is responding normally," you're set. Otherwise, an assistant should appear and walk you through the setup. Select a server (if more than one appears); click on the Begin Setup button; enter the user name and password for your account on the server, as well as the password for the account on your local computer; and click on Continue.

In the next screen, leave the Yes Configure My Applications option selected and click on Finish Setup. Open Directory Utility will set up Open Directory and attempt to configure iCal to use the account's calendar on the server. Click on Log Out; then log back in normally to begin using Open Directory. (This step is unnecessary if you're using Darwin Calendar Server as described in the instructions at macworld.com/3368.)

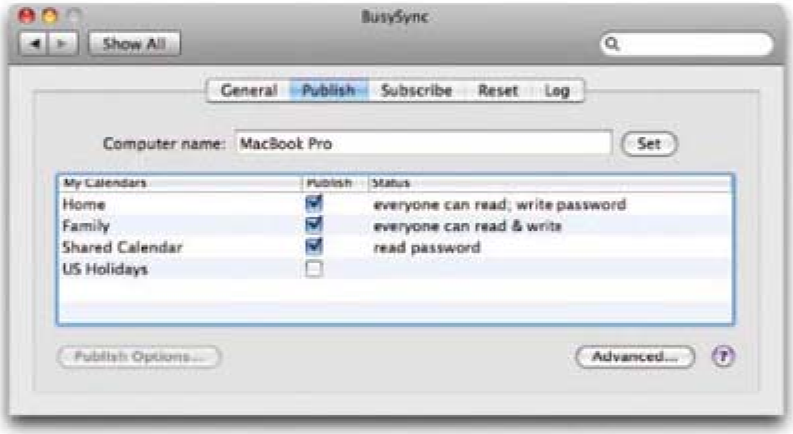
Connect to the Server In iCal, choose iCal: Preferences and click on the Accounts button in the toolbar. If your shared account doesn't already appear in this list, click on the plus-sign (+) button at the bottom of the window. In the Description field, enter a name for the server, such as `CalDAV`. Fill in the user name and password that your server's administrator gave you.

If you're using Darwin Calendar Server, also click on the triangle next to Server Options; then enter the server's IP address or domain name, a colon, and the server's port number in the Account URL field (for example, `192.168.0.11:8008`). Users of OS X Server can generally skip this step.

Now click on Add, and if you see a warning about sending your password insecurely, click on Connect Anyway. iCal will connect to the CalDAV server and add your calendar(s) to a new section in its calendar list. If your group uses a shared calendar that everyone has the same password for, repeat these steps to add an account for it.

Decide How Often to Update After adding an account, select the account in the Preferences window and click on Account Information. Select how often you want iCal to check the server for changes—the default is 15 minutes. Also use the controls in the Availability section to indicate which hours you're normally free for meetings. This will help other people schedule events that include you.

Make Small Tweaks Initially, iCal lists a single calendar (with the name *calendar*) for each account. You can add more calendars by choosing File: New Calendar: CalDAV (or whatever your server name is). To rename a calendar, double-click on its name and type a new one. Select a calendar and choose File: Get Info to change its color or add a description; these changes will be reflected on any other Mac that logs into the same account.



Computer name: MacBook Pro

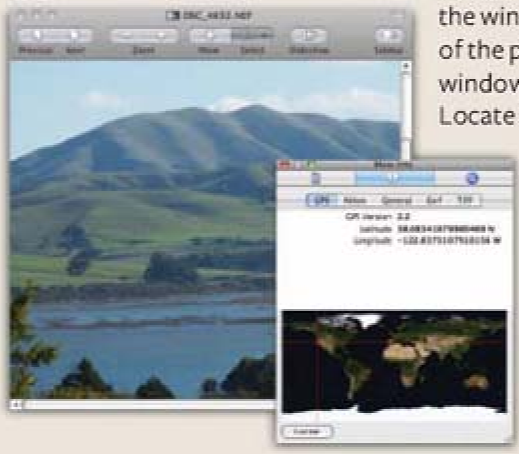
My Calendars	Publish	Status
Home	☑	everyone can read; write password
Family	☑	everyone can read & write
Shared Calendar	☑	read password
US Holidays	☐	

Flexible Sharing BusySync lets multiple people share and edit calendars—no server required.

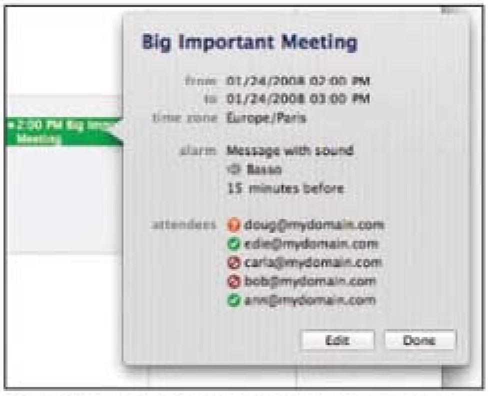
TRY THIS

Location, Location, Location

Leopard's version of Preview understands GPS data embedded within photos and can—with the help of Google Maps—show you where a picture was taken. Open an image that has GPS information embedded in its EXIF data, and choose Tools: Inspector. Click on the middle (More Info) tab and then click on the GPS tab within the window. A small map, with the location of the picture pinpointed, will appear in the window (see "GPS Genius"). Click on the Locate button at the bottom of the window, and your default browser will launch with Google Maps open to this location.—CHRISTOPHER BREEN



GPS Genius Leopard's Preview can read GPS information embedded in a photograph, to show you exactly where it was shot.



Big Important Meeting

from 01/24/2008 02:00 PM
to 01/24/2008 03:00 PM
time zone Europe/Paris

alarm Message with sound
Basso
15 minutes before

attendees doug@mydomain.com
edie@mydomain.com
carla@mydomain.com
bob@mydomain.com
ann@mydomain.com

See Who's Coming The small icons next to each participant's name tell the meeting organizer who's planning to attend.

Take Advantage of Your Calendar Server's Features

CalDAV does more than store everyone's calendars in one location; it also offers several collaboration features and lets you set different levels of access.

Check Group Members' Availability With CalDAV, there's no need to shuffle multiple e-mails back and forth to figure out when everyone can come to a meeting—you can see what times are free *as* you create the event.

First create a new event by clicking on the group calendar in the Calendars column and pressing ⌘-N. Select any time and date, and then click on Add Attendees. If you're using OS X Server, type the first few letters of another user's name; then select the name you want from the pop-up menu and type a comma to accept it (repeating as necessary for additional participants). If you're using Darwin Calendar Server, type the e-mail address of another participant as designated on the server.

Press the tab key and click on the Available Meeting Times link (or choose Window: Availability Panel). A floating window that lists each selected participant will appear. Times outlined with a dotted line are free; gray blocks indicate times when a person has some other event scheduled (see "Find a Good Time"). Drag the colored block representing the time designated for your meeting to the desired spot to schedule your meeting for that time.

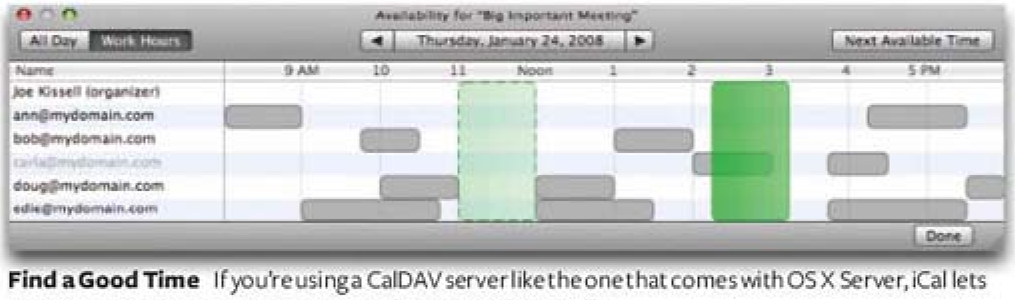
You can click on Next Available Time to automatically select the next time when all participants are available, or use the arrow buttons to navigate to other days. Click on Done to close the Availability window, and then click on Send to send invitations.

Manage Notifications iCal notifies the members of your group whenever you invite them to a meeting. A number next to the calendar name alerts each person to invitations or messages about cancelled events. Notifications themselves appear in the lower left corner of the window; if they're not visible, click on the Hide/Show Notifications button (shown with an envelope icon).

When you receive an invitation, click on Maybe, Decline, or Accept to indicate whether you'll attend. When you double-click on an event you organized, a small icon next to each invitee's name indicates that person's response. An orange question mark means Maybe, a red slash means Decline, a green check mark means Accept, and a gray question mark means no response has been received yet (see "See Who's Coming").

Delegate and Collaborate Suppose you have an assistant who manages your schedule, or a colleague who's handling some of your upcoming appointments while you're out of the office. CalDAV supports *delegation*, a system whereby you can grant any user on your network access to your calendar.

Use this feature by choosing iCal: Preferences, selecting your CalDAV account, and clicking on Delegation. If other people have given you permission to read or edit their calendars, those people's names will appear in the list.


Availability for "Big Important Meeting"
All Day
Work Hours
Thursday, January 24, 2008
Next Available Time
Name
9 AM
10
11
Noon
1
2
3
4
5 PM
Done

Joe Kissell (organizer)
ann@mydomain.com
bob@mydomain.com
carla@mydomain.com
doug@mydomain.com
edie@mydomain.com

Find a Good Time If you're using a CalDAV server like the one that comes with OS X Server, iCal lets you see when your group members are available for a meeting.

Free Calendar Server

If you want more features than BusySync offers, but think the $499 OS X 10.5 Server is too pricey, you can use Terminal to set up a CalDAV server for free. All you need is a Mac running Leopard and some open-source software. Because this approach doesn't use OS X Server's Open Directory feature, some of the snazzy iCal Server features (such as delegation) won't work, but you can still get most of the benefits of CalDAV. It just takes a bit of time and some mucking about with Unix. See macworld.com/3368 for instructions.

Select the Show option next to a name to display that person's calendars in iCal. They will appear in a new calendar group called Delegates.

To give someone permission to see your calendars, click on Edit, click on the plus-sign button, enter the first few letters of the person's name, and then select that name in the pop-up menu. To allow editing, select the Allow Write option. Then click on Done.

iCal can access this feature only when the CalDAV server uses Open Directory to manage users—which OS X Server does, but the Darwin Calendar Server setup does not. Even so, multiple people can see and edit the same calendar if they all set up an account in iCal for a shared calendar and then use the same user name and password to access it. If you follow this approach, choose iCal: Preferences, click on Accounts, select the account for your shared calendar, and click on the Account Information tab. Set the Refresh Calendars interval here to update frequently to reduce the chance that two updates to the same event will overlap. ⊠

Joe Kissell is the senior editor of TidBits and the author of numerous e-books about Mac OS X (www.takecontrolbooks.com).

MAC OS X SERVER BOX PHOTOGRAPH COURTESY OF APPLE

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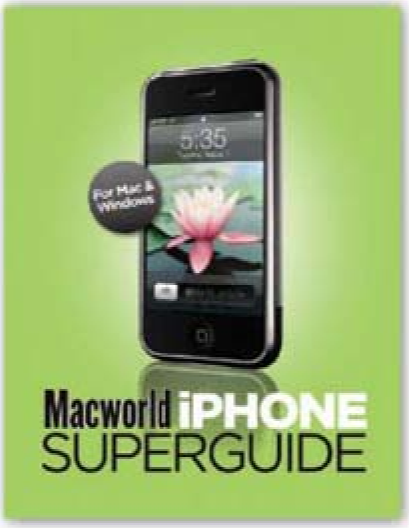
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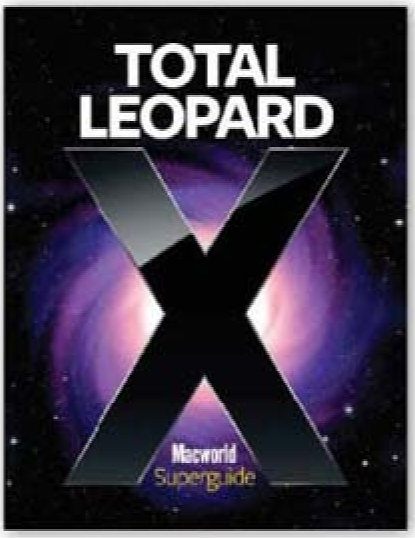
TOTAL LEOPARD
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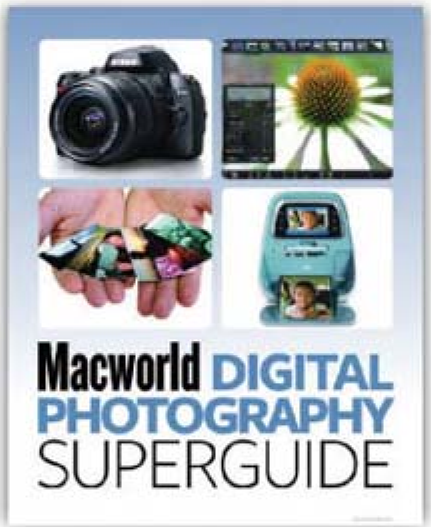
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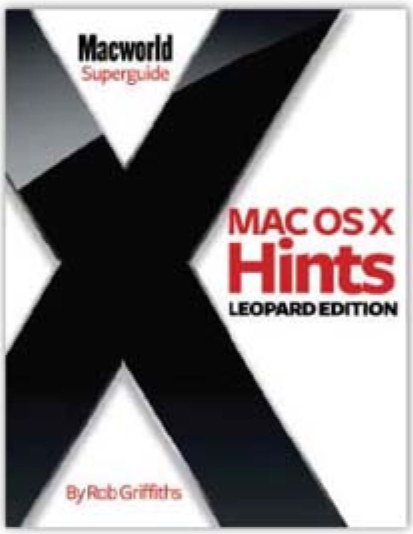
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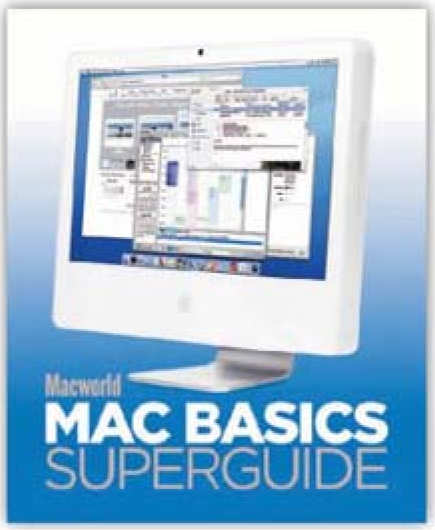
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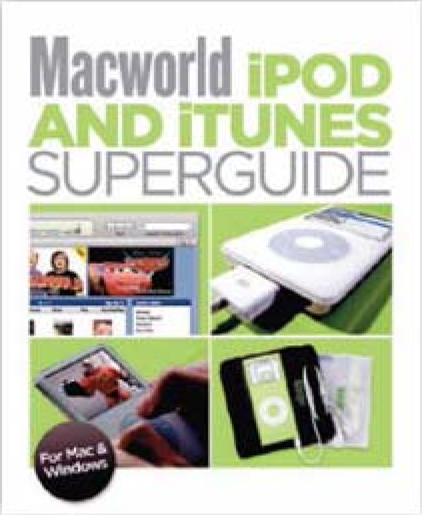
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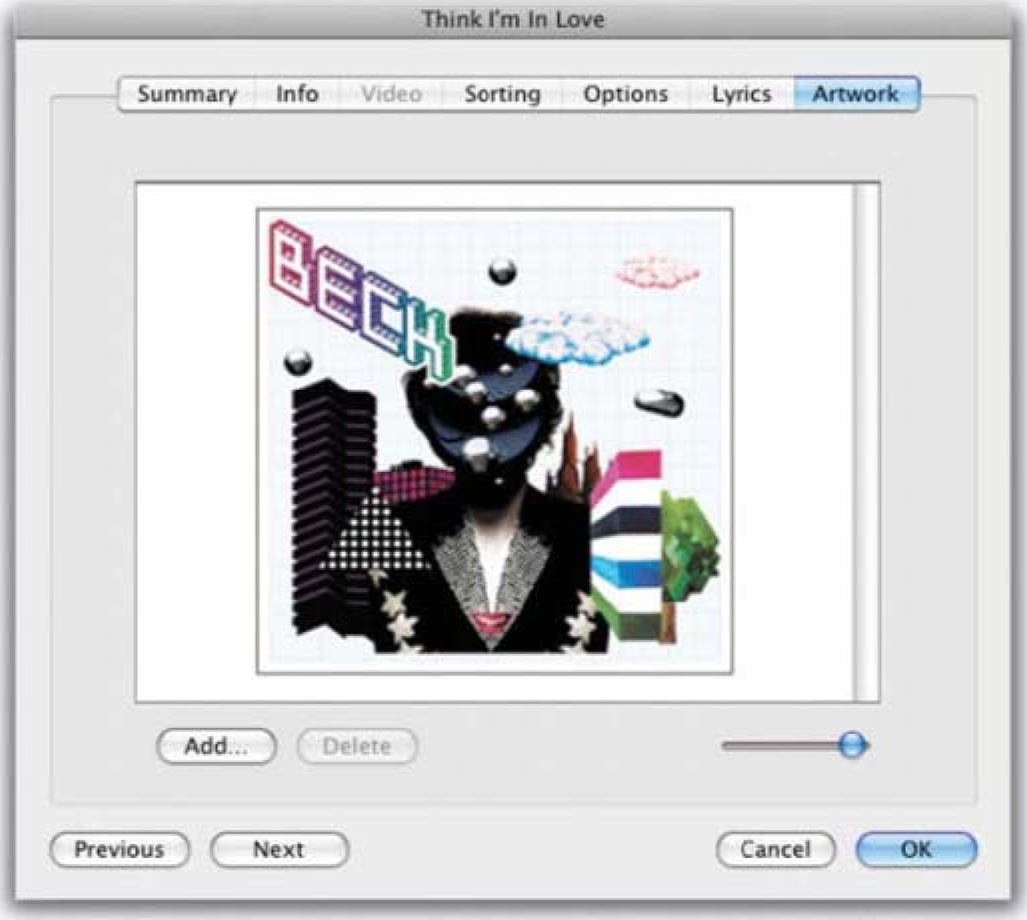
Liven Up Your Tracks with Artwork

Album graphics add a visual element to your music **BY KIRK MCELHEARN**



Artwork Tab To add artwork to one track, select the track, choose Get Info, and drag the image to the art field.

The quickest way to find a CD in a pile of jewel cases is by looking for its cover. Similarly, you can use Cover Flow in iTunes to scroll through your songs and albums, and the iPod lets you do the same thing; the iPod touch and iPhone even let you flick through a Cover Flow view with your fingertip.

But before you can browse your music in this manner, it needs to *have* artwork. Cover art comes with any music you buy from the iTunes Store (and from other online vendors such as Amazon MP3), but you have to add album art yourself when you rip your own CDs.

Find Album Art

To hunt down album art for tracks you've ripped yourself, you can employ one of several methods. The easiest way is to have iTunes do it for you (you'll need to set up an iTunes Store account if you don't already have one). As you rip a CD, you can have iTunes check the iTunes Store for album art. To do this, you must select Automatically Download Missing Album Artwork in the General pane of iTunes' preferences. After you finish ripping an album, iTunes will then connect to the iTunes Store and, if it finds the artwork, download it and add it to your library (note that this works only if the iTunes Store sells the album).

Even if the Store offers the album you're looking for, the tags iTunes downloads from the Internet for a CD you've ripped yourself may not match the artist, album name, and song names of tracks in the iTunes Store exactly. So if iTunes can't find the art for an album you know it sells, check how the album is listed in the Store, correct your tags, select the tracks in iTunes, control-click on them, and choose Get Album Art. iTunes will then check the Store again. You can do this anytime for music that doesn't have album art.

If iTunes can't find the album art you want, the best way to add it is to copy graphics from Web sites. You can use many image formats, such as JPEG, TIFF, PNG, and GIF, and you can add album art to all kinds of music files—with the exception of WAV files—and to videos and movies. A good place to start is Amazon.com, which has cover graphics for most of the albums it sells. Find the product page for an album, and you'll see an image of its cover. You can save this image or, in some cases, you can click on it to see a larger version. Small images are 240 by 240 pixels, which is large enough to use on an iPod classic or nano. Large images are usually 500 by 500 pixels, but they sometimes have white borders that you may want to crop.

You can also find album art on other retail Web sites—CD Universe (www.cduniverse.com), for example, has large graphics at 450 by 450 pixels, with no white borders. The sites of artists or bands often include album covers as well. And you can do a Google image search (images.google.com), where you can narrow down the results by image size and then follow your chosen image to the Web site that hosts it.

In some cases, you may not find any album art that corresponds to your music: the disc may be too old or too obscure, and some live recordings and other downloaded music simply don't have covers. If you have a physical CD, you can scan its liner notes and add the resulting image. For live music, you could use a photo of the band or performer pulled from a Web site.

Keep Size in Mind

As I mentioned, you'll find album art in many different sizes—the size you choose depends on how you plan to use the art. In iTunes, the smallest Cover Flow view scales art to 200 by 200 pixels, though you can expand the Cover Flow pane and get images that, on a 20-inch screen, are larger than 650 by 650 pixels. So if you plan to use Cover Flow a lot, you'll probably want large album art: for the best quality in scaling, I recommend using the largest you can find, up to 600 by 600 (the iTunes Store supplies album art at this size). On the iPod touch and the iPhone, images are no larger than 320 by 320 pixels, and on the iPod classic they max out at 100 pixels square. So Amazon's large images—500 by 500—are fine for most purposes.

If you scan your own images, you might want to choose 600 by 600 pixels. In all cases, though, you want to make sure the images don't take up too much disk space because album art inflates the overall file size of your tracks—if you add a 1MB image to every song in a dozen-track album, that's 12MB added to your library, taking up space on your iPod and on your Mac.

When you download album art from the iTunes Store, however, iTunes doesn't add the graphics to your files, but rather it puts them in a central folder on your computer. You can view the graphics in iTunes, and they will accompany your songs to your iPod, but these images aren't portable; if you copy a track to another computer, it won't have the album art.

New Feeling
Talking Heads

Album Art Widget This useful Dashboard widget lets you search for and add album art to the currently playing song.

As you rip a CD, you can have iTunes check the iTunes Store for album art.

Add Artwork to Your Files

Once you've found the artwork, you can add it to any music or video files, including those purchased from the iTunes Store (though you cannot change artwork for Audible files).

For single files, the easiest way to add artwork is to select a file in iTunes, press ⌘-I to get its information, and click on the Artwork tab. Either drag a file into the artwork box, or paste a file that you have copied from, say, a Web page (see "Artwork Tab"). Click on OK to save the art. You can even add multiple graphics in this box; just drag an additional graphic into the box before or after the current one, or click outside any existing graphic to make sure it's not highlighted and then paste in the extra graphic.

For multiple files, select the ones to which you want to add album art and then press ⌘-I. This time, you'll see the Multiple Item Information window. Drag or paste art into the Artwork box, and then click on OK to save it. Note that this action replaces any single or multiple graphics you may have added to the selected files, so this is an easy way to make sure that you have consistent artwork for an entire album.

Another way to add or view artwork for any file is through iTunes' Artwork Viewer. To see it, select View: Show Artwork or click on the last of the four buttons in iTunes' lower left corner (if the top of the Artwork Viewer says Now Playing, click on that text to change it to Selected Item). If the selected tracks in iTunes have album art, the viewer will display it—if not, it will say Drag Album Artwork Here. Drag graphics to this section to add them to the selected files. If you already have artwork in your files and you drag art there, it gets added to, but doesn't replace, the existing artwork. If selected files have more than one graphic, you'll see small arrows on either side of Selected Item that you can use to scroll backward or forward through multiple images. And if you click on an image in the viewer, it will open up in its own window at a large size.

For video files, you can set a *poster frame* for almost any video you've imported. This is a specific frame from the video that you want to display as artwork. To do so, play the video until you find the frame you want to use and then pause it. Control-click on the video and choose Set Poster Frame.

Get a Little Help

To make it easier to add artwork, you might want to sort your music so you can find all the tracks that are missing art. On his excellent Web site, Doug Adams has an AppleScript called Tracks Without Artwork To Playlist 2.3 (payment requested; macworld.com/3342) that can create a playlist of these tracks for you.

Although many programs seek out album art, I like Alastair Tse's Album Art Widget 2.9.2 (payment requested; www.liquidx.net). This Dashboard widget can search a number of different Amazon.com sites from around the world, as well as Google Images and other sites, for album art; display what it finds; and add it to the currently playing track in iTunes (see "Album Art Widget").

Kirk McElhearn writes about Macs, iPods, books, music, and more on his blog, Kirkville (www.mcelhearn.com).

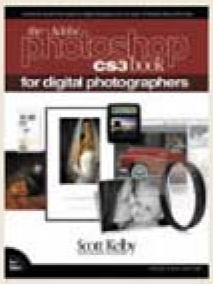
Color Correcting Digital Camera Images

Cast out bad color with Photoshop's Curves tool **BY SCOTT KELBY**

As far as digital technology has come, there's still one thing that digital cameras won't do: give you perfect color every time. In fact, if they gave us perfect color 50 percent of the time, that would be incredible. But unfortunately, every digital camera sneaks some kind of color cast into your images. Here's how to get your color in line.

Set Preferences

In Adobe Photoshop CS3, open the photo you want to color correct. Under the Image menu, select Adjustments: Curves (or press ⌘-M). Curves is the hands-down choice of professionals for correcting color, because it gives you a greater level of control than other tools, such as Levels, which pretty much limits you to just three adjustment sliders.



By the Book This article is an excerpt from *The Adobe Photoshop CS3 Book for Digital Photographers*, by Scott Kelby (copyright 2008; reprinted by permission of Pearson Education and New Riders).

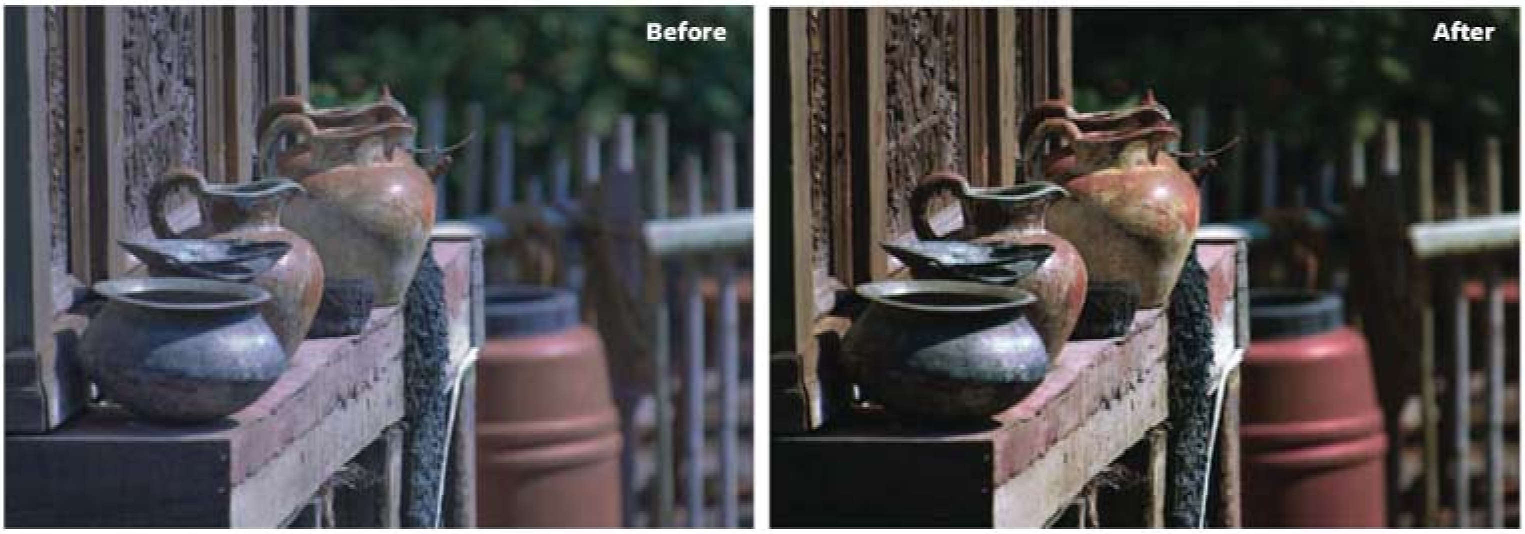
First, we need to set some preferences in the Curves dialog box so we'll get the results we want when color correcting. We'll start by setting a target color for our shadow areas. To do so, double-click on the Curves dialog box's black Eyedropper tool. This brings up the Color Picker. In the R, G, and B (Red, Green, and Blue) fields of this dialog box, enter the number **10**. Now click on OK to save these numbers as the target shadow settings. Because these values are evenly balanced (they're all the same number), our shadow areas won't have too much of one color, and by using 10, we get dark shadows while still maintaining shadow detail in our prints.

Now we'll set a preference to make our highlight areas neutral. Double-click on the white Eyedropper. The Color Picker will appear, asking you to select a Target Highlight Color. Enter **243** in the R, G, and B fields. (To move from field to field, just press the tab key.) Click on OK to set those values as your highlight target color.

First Steps

TIP Before you correct even a single photo, go to the Photoshop toolbox and click on the Eyedropper tool (or press the I key). If you look up in the Options Bar, you'll see that the tool's default Sample Size setting is Point Sample. The problem with this setting is that it gives you a reading from just one individual pixel, rather than giving you an average of the area where you're clicking (which is much more accurate for color-correction purposes). To fix this, change the Sample Size pop-up menu to 3 By 3 Average. When you're working on very high-resolution images in Photoshop CS3, you can choose larger sampling areas, such as 5 by 5, 31 by 31, and even 101 by 101.

Now set your midtone preference. You know the drill: Double-click on the midtones Eyedropper (the middle of the three Eyedroppers). Enter **133** in the R,



Color Correction The image on the left suffers from a bluish color cast. After a trip to the Curves dialog box, the colors are much more accurate.

G, and B fields. Then click on OK to set those values as your midtone target color. That's it—you've done all the hard work. The rest is pretty easy.

If you still have the Curves dialog box open, click on OK to exit it for now, and you'll get a warning dialog box that asks whether you want to save the new target colors as defaults. Click on Yes, and from this point on, you won't have to enter these values each time you correct a photo—they're now the default settings.

Correct Shadows

Now that you've entered your target-color preferences in the Curves dialog box, you're going to use the same Eyedropper tools to do most of your color correction work.

Let's start by setting the shadows. Press ⌘-M to bring the Curves dialog box back up. Look at the photo and find something that's supposed to be black. In most photos, this won't be a problem—you'll see a dark area of shadows or a black car tire, for instance. But if you can't find something that's supposed to be black, then you can have Photoshop show you exactly where the darkest part of the photo is.

There are two sliders directly under the curve grid that can help you. Press and hold the option key and click on the left slider (Shadow). Your image area will turn solid white. As you drag the slider to the right (while still holding the option key down), the first areas that appear on screen are the darkest parts of your photo. Remember where those areas are (in our example, it's the shadow under the first pot on the left).

Now that you know where your shadow area is, drag the Shadow slider back to the left, and release the option key. Now click on the black Eyedropper, and (while the Curves dialog box is still open) click once on that shadow area in your photo. The color cast will be removed from the shadow areas.

Correct Highlights

Now, on to setting the highlight point: Find something that's supposed to be white. Again, this is usually pretty easy, but if you can't find something white, you can use the trick you just learned to have Photoshop show you where the lightest part of your photo is. Press and hold the option key, but this time drag the right-hand slider (Highlight) to the left. The screen will turn black, and as you drag the slider to the left, the first white areas that appear are the lightest parts of your image.

Now that you know where your highlight area is, drag the Highlight slider back all the way to the right, and release the option key. Click on the white Eyedropper, and click once on that highlight area. Try and look for a white area that has some detail (rather than clicking on a *specular highlight*, which is a blown-out highlight area with no detail, like the sun or a bright sun reflection on a chrome car bumper).

Correct Midtones

Now for your third click: finding something that's supposed to be a neutral gray. This one's a little trickier, because not every photo has a neutral gray area, and the Curves dialog box doesn't have a "find the gray" trick, as it does for shadows and highlights (for a workaround, see "Finding a Neutral Gray"). In the example photo, the neutral gray is in the edge of the large vase on the ground. This click neutralizes the color cast in the midtones.

Scott Kelby is the editor in chief of *Photoshop User* magazine and the president of the National Association of Photoshop Professionals.

Finding a Neutral Gray

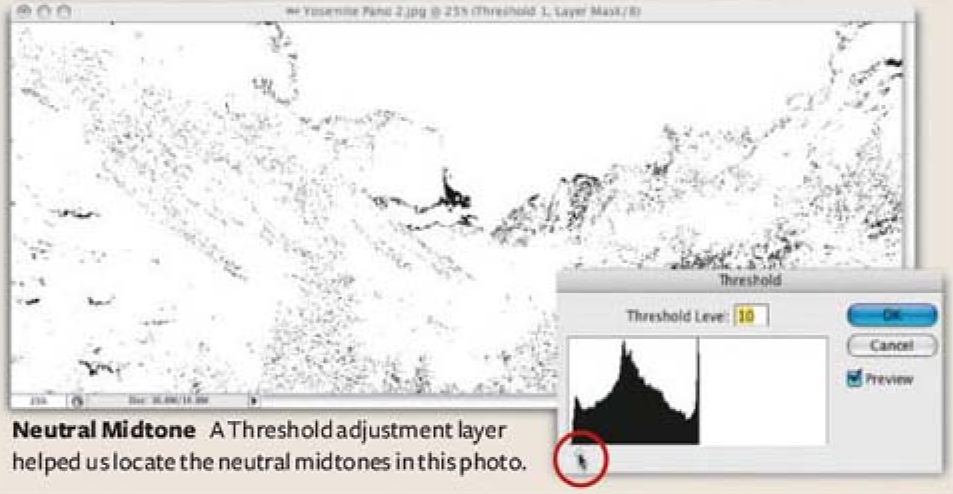
Finding a neutral midtone while color correcting has always been kind of tricky. That is, it was until Dave Cross, who works with me as the senior developer of education for the National Association of Photoshop Professionals, came into my office one day to show me his amazing trick for finding exactly where the midtones live in just about any image.

Step One Open a color photo, and click on the New Layer icon at the bottom of the Layers panel to create a new blank layer. Select Edit: Fill. Choose 50% Gray from the Use pop-up menu in the Contents section.

Step Two Go to the Layers panel and change the blend mode of this layer to Difference. This doesn't do much for the look of your photo, but don't worry—the change is only temporary.

Step Three Choose Threshold from the Create New Adjustment Layer pop-up menu at the bottom of the Layers panel. When the dialog box appears, drag the slider all the way to the left (your photo will turn completely white). Now slowly drag the slider back to the right, and the first areas that appear in black are the neutral midtones. To help you remember exactly where one of the areas is, hold down the shift key, move your cursor over that spot, and click once to add a Color Sampler tool point just as a reminder. Then click on the Cancel button in the Threshold dialog box.

Step Four Now that your midtone point is marked, go back to the Layers panel and drag the gray layer onto the Trash icon to delete it. You'll see your full-color photo again. Now press ⌘-M to open Curves, get the midtones Eyedropper, and click directly on that Color Sampler point.



Threshold Level: 10

Neutral Midtone A Threshold adjustment layer helped us locate the neutral midtones in this photo.

Networking Made Easier

A visual guide to Leopard's simplified interface

BY GLENN FLEISHMAN

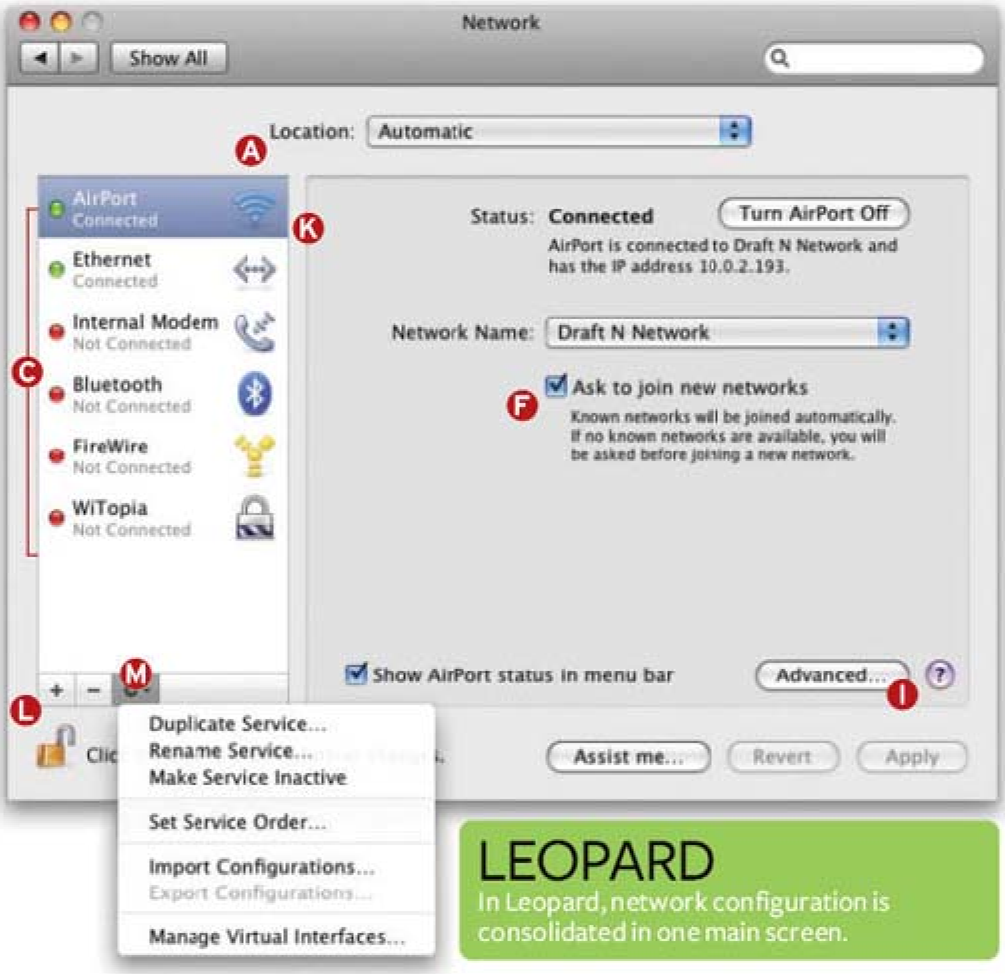
Compared with other operating systems, Mac OS X has always made setting up and configuring network connections pretty easy. In Leopard (OS X 10.5), it gets even better. That's largely due to Apple's consolidation of network-configuration and -connection tools, which had formerly been scattered among several different preference panes and utilities. Leopard's unified Network preference pane tells you at a glance what's going on with your network connections.

That's not to say that the transition to Leopard networking is easy, particularly if you're accustomed to the old way of doing things. Here's how the networking tools in Tiger (OS X 10.4) and Leopard compare.

Select Location

The Location drop-down menu Ⓐ is essentially the same in Leopard as it was in Tiger; it even occupies the same spot in the Network preference pane. In both operating systems, you use this menu to select a location and then configure its associated network settings.

The list of network adapters has moved from a large center pane in Tiger Ⓑ to a narrower pane on the left in Leopard Ⓒ. But it's more than a change in position: in Leopard, getting information about and configuring each adapter has been conveniently consolidated.


Network
Show All
A
K
C
F
M
L
I
AirPort
Connected
Ethernet
Connected
Internal Modem
Not Connected
Bluetooth
Not Connected
FireWire
Not Connected
WiTopia
Not Connected
Turn AirPort Off
Advanced...
?
Assist me...
Revert
Apply
Clic
Duplicate Service...
Rename Service...
Make Service Inactive
Set Service Order...
Import Configurations...
Export Configurations...
Manage Virtual Interfaces...

Location: Automatic

Status: Connected

AirPort is connected to Draft N Network and has the IP address 10.0.2.193.

Network Name: Draft N Network

☑ Ask to join new networks

Known networks will be joined automatically. If no known networks are available, you will be asked before joining a new network.

☑ Show AirPort status in menu bar

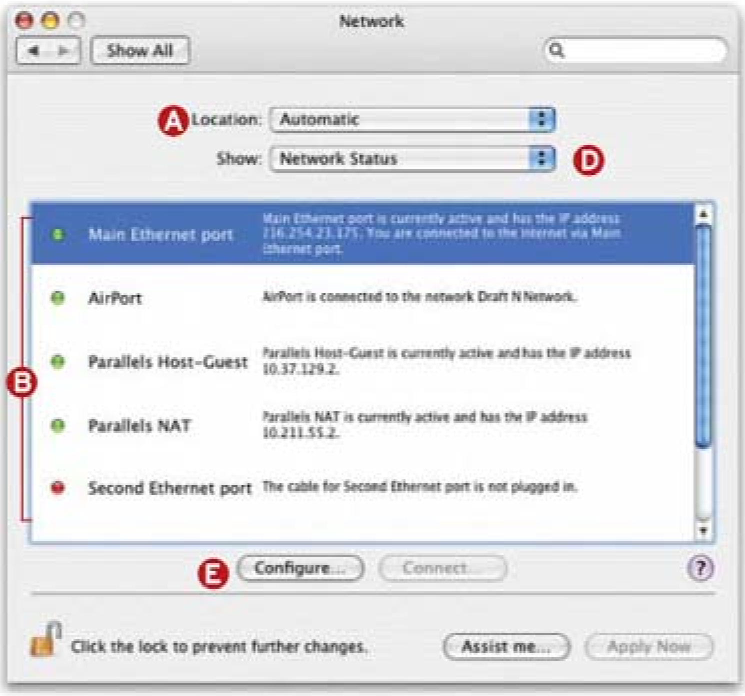
LEOPARD
In Leopard, network configuration is consolidated in one main screen.

In Tiger, when you selected Network Status from the Show menu Ⓓ, you'd see the list of the network adapters. Next to each adapter in the main window was a summary of its status (active or not) and, if it was active, its IP address and/or the network to which it was connected. If you wanted to adjust its settings, you'd either go back to the Show menu and select the adapter you wanted to configure, or select it from the list and click on the Configure button Ⓔ.

In Leopard, the Show menu has gone away. Instead, you get a quick status message below each adapter in the list Ⓒ. If you select an adapter, you get much more detailed information and some basic configuration options in the pane on the right Ⓕ.

Take, for example, the process of configuring an AirPort connection. In Tiger, you'd select the adapter and then click on the Configure button (or select it from the Show menu). That would take you to a separate screen Ⓖ, where you could select the default wireless network you wanted to join, and set TCP/IP and other networking details. You'd then launch the separate Internet Connect utility Ⓗ to select among the available wireless networks, view a Signal Level meter and the Base Station ID (neither of which was particularly useful), or select a network from the AirPort menu.

In Leopard, to set up an AirPort adapter, you select it from the adapter list on the left and, in the pane on the right, select the name of the network you want to join Ⓕ. Instead of providing the signal strength and base station ID, Leopard gives you the much more useful IP address (which, for some reason, Tiger didn't display for wireless connections).



Location: Automatic

Show: Network Status

Main Ethernet port — Main Ethernet port is currently active and has the IP address 216.254.23.175. You are connected to the Internet via Main Ethernet port.

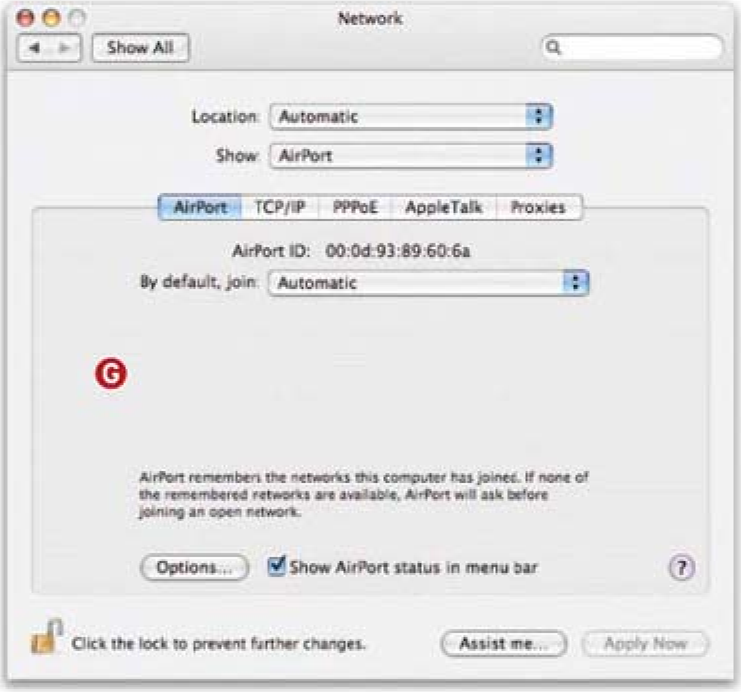
AirPort — AirPort is connected to the network Draft N Network.

Parallels Host-Guest — Parallels Host-Guest is currently active and has the IP address 10.37.129.2.

Parallels NAT — Parallels NAT is currently active and has the IP address 10.211.55.2.

Second Ethernet port — The cable for Second Ethernet port is not plugged in.

Click the lock to prevent further changes.



Location: Automatic

Show: AirPort

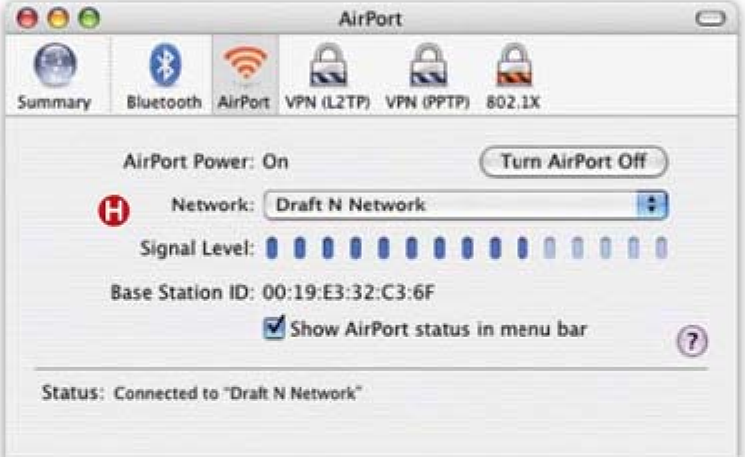
AirPort ID: 00:0d:93:89:60:6a

By default, join: Automatic

AirPort remembers the networks this computer has joined. If none of the remembered networks are available, AirPort will ask before joining an open network.

☑ Show AirPort status in menu bar

Click the lock to prevent further changes.



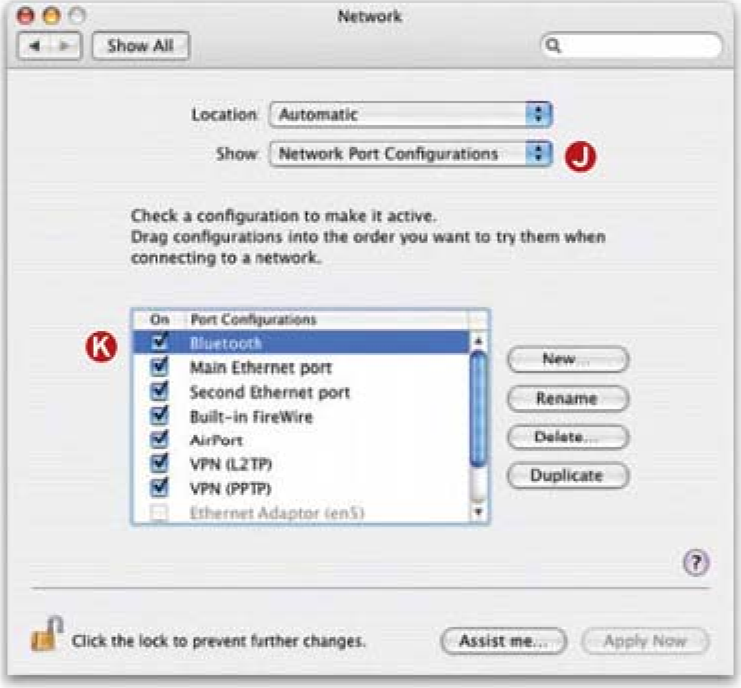
AirPort Power: On

Network: Draft N Network

Base Station ID: 00:19:E3:32:C3:6F

☑ Show AirPort status in menu bar

Status: Connected to "Draft N Network"



Location: Automatic

Show: Network Port Configurations

Check a configuration to make it active.
Drag configurations into the order you want to try them when connecting to a network.

On	Port Configurations
☑	Bluetooth
☑	Main Ethernet port
☑	Second Ethernet port
☑	Built-in FireWire
☑	AirPort
☑	VPN (L2TP)
☑	VPN (PPTP)
☐	Ethernet Adaptor (en5)

Click the lock to prevent further changes.

TIGER

In Tiger, it took four separate screens to do what Leopard does in just one.

Advanced Options

There's still a button at the bottom of OS X's Network preference pane. But instead of Tiger's Configure button, Leopard has an Advanced button Ⓘ. As the name implies, it's strictly for settings—such as 802.1X profiles for corporate network access, advanced DNS, and WINS network configurations—that most users will never need.

The process of adding and disabling network adapters, and selecting their order of preference for use by programs and services, has also changed.

In Tiger, you had to first choose Network Port Configurations Ⓙ from the Show menu. You could then add, remove, rename, or duplicate adapters (or manage multiple configurations for one adapter). To make a configuration active or inactive, you selected or deselected a check box next to its name Ⓚ. You could rearrange the order of preference in which networked programs and services would use those configurations by dragging them up and down the list, but that was a hidden feature.

Leopard puts all of these tools into the same, unified Network preference pane. To add or remove adapters, you use the plus (+) and minus (–) signs Ⓛ at the bottom of the adapter list. To rename, duplicate, activate, or deactivate adapters, you use a drop-down Actions menu Ⓜ. You can also use this menu to set the order of preference in which your adapters will be used.

From that same drop-down menu, you can duplicate entire system configurations (especially useful for networks of machines with complicated setups) and manage virtual interfaces (used to separate multiple networks that run over the same physical hardware, typically in large companies). Doing that in Tiger was never easy. ☒

Glenn Fleishman is the author of *Take Control of Users and Accounts in Leopard* (Take Control Books, 2007) and the proprietor of Wi-Fi Networking News (wifinetnews.com).

Automating Word 2008

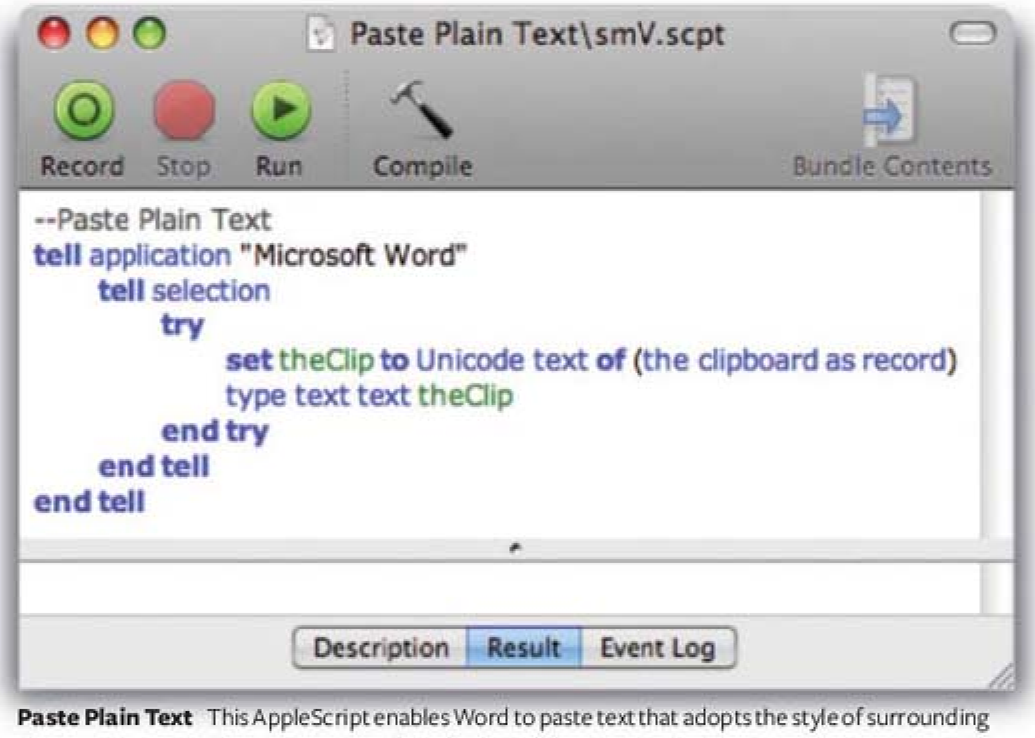
Replace Visual Basic macros with AppleScripts in Word 2008 **BY JOE KISSELL**

Prior to Office 2008, you could automate repetitive tasks and add entirely new features in Microsoft Word by using Visual Basic for Applications (VBA) macros. Unfortunately, Word 2008 doesn't support VBA. In its stead, Microsoft recommends that you use AppleScript and Automator. The good news is that, with a little tinkering, almost anything you could do with a VBA macro in previous versions of Word, you can now do with AppleScript in Word 2008.

There's bad news as well. One, Office 2008 doesn't support the recording of AppleScripts as it once did for VBA. That means you must code AppleScripts by hand. Two, you can't attach AppleScripts to toolbar buttons. (You can put them in a menu and assign keyboard shortcuts to them, though.) And three, you can't embed AppleScripts in a Word document (as you could do with VBA macros); if you want someone else to use a script you've written, you'll have to send them the script file along with the document.

As examples of what you can do with AppleScript in Word 2008, I created the following scripts. They solve some basic problems in Word; some of them replicate macros I created with VBA in earlier versions of Word.

To use these scripts, type them into Script Editor (in /Applications/AppleScript) and save them, with the file format Script, in the Microsoft User Data/Word Script Menu Items folder. (By default, it's in *your user name*/Documents.) Alternatively, if you'd rather not type them out yourself, you can download them from macworld.com/3408 and copy them into the same folder. However you do it, the scripts should then appear in Word's Scripts menu (just to the right of the Help menu, shown with the stylized *S* icon).



```
--Paste Plain Text
tell application "Microsoft Word"
	tell selection
		try
			set theClip to Unicode text of (the clipboard as record)
			type text text theClip
		end try
	end tell
end tell
```

Paste Plain Text This AppleScript enables Word to paste text that adopts the style of surrounding characters, via a single menu command or a keyboard shortcut.

Paste Plain Text

Most word processors have an alternative Paste command—often called Paste Plain Text or Paste And Match Style—that strips the copied or cut text of its original formatting, so that when you paste it, the text assumes the style of the text you're pasting it into. To do that in Word, after you've copied or cut your text, you have to choose Edit: Paste Special, select Unformatted Text, and click on OK; you can assign a shortcut to Paste Special but not to the procedure as a whole.

I wanted a way to do this in Word 2008 with a single keystroke, and without having to install any third-party software. (Loads of utilities will let you do this.) Microsoft's Web site suggests one paste-as-plain-text script. It looks wonderfully simple, but there's a problem: unless the insertion point is at the end of the document when you run the script, Word leaves the insertion point *before* the pasted text, not *after*, as you would normally expect when pasting text.

So I made a script of my own (see "Code Box"). It doesn't actually paste the contents of the Clipboard; rather, it simulates typing by using the `type text` command. This method puts the insertion point at the end of the pasted text, where you'd expect it. This script works only with text. If your Clipboard contains only graphics, the script does nothing; if the Clipboard contains text plus other elements, the script inserts only the text.

Enclose in HTML Tags

Word isn't the best tool for editing raw HTML code. But sometimes you may need to insert some HTML in a document. If you select some text and run this script (see "Code Box"), it encloses that text in `<a>` (anchor) tags and, as a bonus, moves the insertion point between the quotation marks so that you can type or

CODE BOX

PASTE PLAIN TEXT

```
tell application "Microsoft Word"
tell selection
try
set theClip to Unicode text of (the clipboard as record)
type text text theClip
end try
end tell
end tell
```

ENCLOSE IN HTML TAGS

```
tell application "Microsoft Word"
tell selection
set newPoint to (selection start + 9)
set myString to "<a href=\"\">" & content of text object & "</a>"
set content of text object to myString
set selection start to newPoint
end tell
end tell
```

CLEAN UP TEXT

```
tell application "Microsoft Word"
set findRange to find object of selection
tell findRange
execute find find text "^p^p" replace with "¶" replace replace all
execute find find text "^p" replace with " " replace replace all
execute find find text "¶" replace with "^p" replace replace all
execute find find text "^w" replace with " " replace replace all
execute find find text "^p^w" replace with "^p" replace replace all
end tell
end tell
```

paste in the URL to which the text should link. (You can easily modify this script to insert different HTML tags.)

The line `set newPoint to (selection start + 9)` determines the new location of the insertion point. (You want the insertion point to follow the nine characters in the text string `<a href="`.) The line `set selection start to newPoint` actually moves it.

Clean Up Text

When you paste text into a Word document that you've copied from a Web browser or an e-mail message, you may find that every line has a hard return at the end, and sometimes extra spaces. This script (see "Code Box") cleans up such text by removing extra returns and spaces; it assumes that any sequence of two returns was meant to be a genuine paragraph break, while single returns should be spaces. Select the range of text you want to clean up, and run this script.

This script consists of a series of find-and-replace commands. The first replaces all double returns (which will be real paragraph breaks) with a placeholder character. I used the paragraph symbol (¶; option-7), but you can use any dummy character you like, as long as it doesn't already exist in your text. The second command replaces all remaining returns with a space. The third replaces the placeholder characters with single returns. The fourth replaces all white space (any number of spaces and tabs) with a single space. The fifth removes any extra spaces after returns.

Assign Keyboard Shortcuts to AppleScripts

Now that you've got your AppleScript "macros" in Word 2008's Scripts menu, here are two easy ways to assign keyboard shortcuts to them.

System Preferences Go to the Keyboard & Mouse pane of System Preferences and click on Keyboard Shortcuts. Click on the plus-sign (+) button at the bottom of the window. From the pop-up menu, choose Microsoft Word (you may need to choose Other and then locate it on your disk). Then, in the Menu Title field, type your script name exactly as it appears, including capitalization—for example, Paste Plain Text. Click in the Keyboard Shortcut field, press the key(s) you want to use as your shortcut, and click on Add.

Script Name You can build a keyboard shortcut directly into your script by tacking a few extra characters onto the end of the script's name when you're saving it in Script Editor. Immediately after the name (without an intervening space), add `\s` (to indicate that what follows is a shortcut), then one or more modifier keys (`m` for the ⌘ key, `c` for control, and/or `o` for option), and then a single character. If you enter a capital letter or some other shifted character, your shortcut will include the shift key. For example, `\smV` is ⌘-shift-V; `\scoh` is control-option-H.

Online Extras

Want to skip all that typing? Download all the scripts described in this story—plus three more we didn't have room for—from macworld.com/3408.

Final Thoughts

To learn more about using AppleScript in Word, visit macworld.com/3410, where you can download the 526-page PDF "Microsoft Word 2004 AppleScript Reference" (most of which still applies to Word 2008). If you're accustomed to VBA, you should also download the free PDF "MacTech's Guide to Making the Transition from VBA to AppleScript" from macworld.com/3411. ☒

Joe Kissell is the senior editor of TidBits and the author of numerous e-books about Mac OS X (www.takecontrolbooks.com).

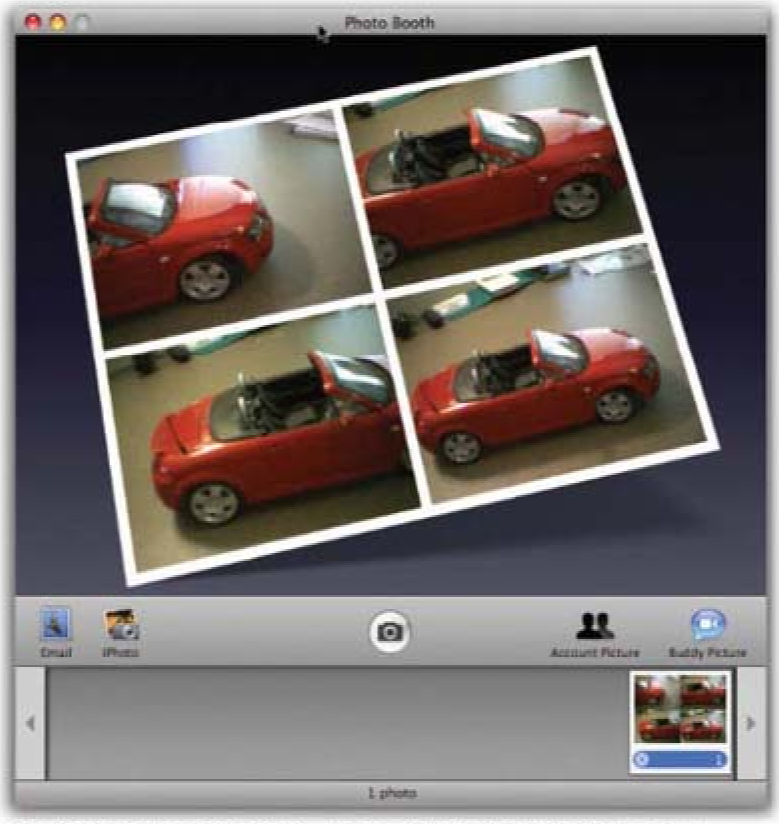
Help Desk

Mac OS X Hints

The insider tips you won't get from Apple **BY ROB GRIFFITHS**

New Photo Booth Trick

Got Mac OS X 10.5 (Leopard)? Then you've also got Photo Booth—the little photo-manipulation program formerly available only on Macs that sported a built-in iSight camera. Photo Booth's new burst mode takes four quick pictures in succession and then displays the result as a single, multipaned image in the Photo Booth window (see "Multiple Photos, One Slide"). This is a great way to snap a bunch of funny faces or create an animated iChat icon.



Multiple Photos, One Slide Leopard's Photo Booth includes a new feature that quickly shoots four images and combines them into one mega-slide. But you can also find and use each image that makes up the montage, if you'd like to import just one into iPhoto.

To use burst mode, click on the icon that looks like a divided windowpane on the left side of the Photo Booth screen. Then click on the camera button to take the pictures. (If you hold down the option key before pressing the button, Photo Booth will snap the pictures without the 3-2-1 countdown.) Photo Booth actually does store four pictures when you take a burst-mode photo. (You can find them all in the *your user folder*/Library/Pictures/Photo Booth folder.) Click on any of the panes to make that picture fill the window. If one strikes your fancy, you can add it to iPhoto by visiting the Photo Booth folder and dragging the desired image file onto iPhoto's Dock icon.

You can also select File: Export to export your four images as a single animated GIF and use this as your iChat buddy icon. In iChat, open your Buddy List (View: *account type* Buddy List), click on your user picture, and select Edit Picture. Click on Choose and navigate to the animated GIF you just created. Click on Open and then on Set. Your animated icon will be visible to other Leopard users who have turned on that option (and also to people using third-party AIM clients that support animated buddy icons). Open iChat: Preferences, click on the General tab, and select Animate Buddy Pictures to turn that option on yourself.

I HELPED THE
HELP
DESK

Have a hint to share?

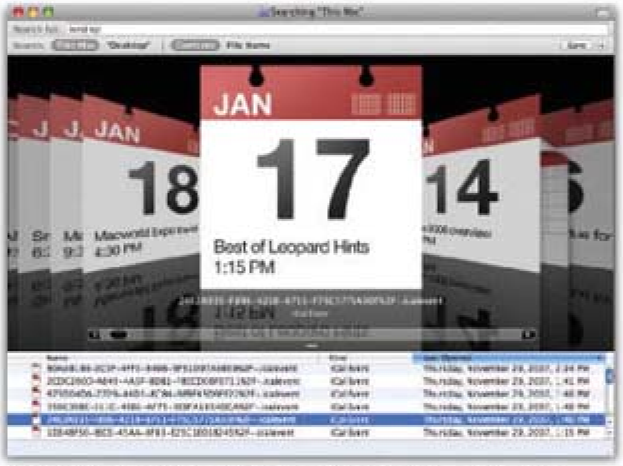
Go to MacOSXHints.com to submit it. This column was based on tips from Kee Hinckley, Mark Hunte, Joel Isaacson, and Jason Wiggins. Each month, the author of our favorite tip receives the *Help Desk* mug.

Control the Volume Better with Leopard

One of the things that bugs me about OS X is that volume adjustments made with the keyboard's volume keys move in steps that are too large. Invariably, I'll adjust the volume down a notch and the sound will get too quiet. To fix this, I've had to take the time to twist the manual volume control on my external speakers or—if I'm using my laptop—open the volume slider for finer-grained control.

With Leopard, however, this problem has been resolved—as long as you're using an Apple keyboard or one that doesn't rely on its own drivers to make its volume keys work. At first glance, it seems that the volume keys work as they always have—press one and you'll see the volume change one full notch on the on-screen indicator. However, if you press and hold shift-option and

MUG PHOTOGRAPH BY PETER BELANGER; ICON BY PAUL HOWALT



Cover Flow Events Using Spotlight and Leopard's new Cover Flow view mode, you can get a unique look at all the events and to-dos in your iCal calendars.

then press a volume key, you'll find that the on-screen indicator now shows each box filling up in four discrete steps. Note that if you must press your laptop's Fn key to activate its function keys' special features, you'll need to add that key to the mix.

Organize Mail's Folders

As of the new version of Apple's Mail, you can now rearrange the sidebar folders—Mailboxes, On My Mac, Reminders, Smart Mailboxes, and so on. Just click and hold on any folder and then drag the folder to a new position. You don't even have to have Mailboxes at the top of the list. I welcomed this news because I have a lot of IMAP accounts, and each clutters the sidebar with a needless folder. While I can't rid the sidebar of those folders, I can at least move the more important On My Mac folder above them, making it easier to file e-mail messages via drag and drop.

You can also delete folders you're not using. To get rid of Mail's RSS folder, for example, open it, hold down shift, and click on each feed in the list. Control-click on the selection and choose Delete Feeds from the contextual menu that appears. When you've deleted all the feeds, the RSS folder in the sidebar icon will also vanish.

Name Events More Easily in iCal

Apple's iCal calendar program changed a lot with Leopard—and not all of the changes are convenient. Editing event information, for instance, can now take several steps more than it did before. If you just want to change the name of an iCal event, however, here's a time-saver: Don't double-click on it to bring up the editing pop-up window. Instead, highlight the event by clicking on it once (or by using the arrow keys), and then press return. Now you can edit the name in place.

WHAT'S ONLINE

Customize Your Terminal Welcome Miss the old Terminal welcome message? Here's how to get it back (macworld.com/3396).

Use Quick Look from Terminal Strange but true—you can use Leopard's Quick Look feature in Terminal with this tip (macworld.com/3397).

View iCal Events in Cover Flow

Leopard gives the more visually inclined folks among us a new way to look at calendar events—by flipping through them in Cover Flow view. Imagine that you're, say, working for *Macworld*, and you're writing a number of articles about Leopard. You don't have to launch iCal to find some event information. Instead, activate the Spotlight search field by pressing ⌘-spacebar or clicking on the magnifying glass in your menu bar. In the search field that appears, type `kind:ical` and your search term—in this case, `Leopard`—and then select Show All. A Finder window will open with a list of all related events. Click on the Cover Flow view icon, and your calendar pages will appear in a stack (see "Cover Flow Events").

Flipping through your events this way is convenient, but it does have two limitations. For one thing, you can't see the event's year, so if you've matched an older event, it's hard to tell. You also can't view your events in chronological order—you're restricted to Name, Kind, or the Last Opened date (the three columns shown in the area below the Cover Flow view). ☒

POWER TIP OF THE MONTH

Trigger Time Machine Remotely

It's easy to make Leopard's new backup program copy your data—just control-click on the Time Machine icon in the Dock (or your backup drive's icon in a Finder window's sidebar) and select Back Up Now. For those people who use Time Machine in manual mode, this is a very important command—it's the only way to run their backups. However, you have to be at your computer to execute the command. What if you're away and you realize that you forgot to run a backup before leaving? You don't have to go to the trouble of logging in using Screen Sharing or VNC from a non-Mac. Instead, you can use `ssh` and a simple Terminal command.

Connect to the Mac (which, obviously, needs to be turned on) via `ssh` from whatever computer you're using. Then type this command in Terminal, with no spaces except one before the ampersand (&), or copy and paste it from macworld.com/3395:

```
/System/Library/CoreServices/backupd.bundle/Contents/Resources/
backupd-helper &
```

Press return, and the Time Machine backup will start on the remote machine—the ampersand at the end of the command runs the job as a background process, so you'll see your Terminal prompt before the backup job completes.

Senior Editor **Rob Griffiths** runs the MacOSXHints.com Web site.

Mac 911

Solutions to your most vexing Mac problems **BY CHRISTOPHER BREEN**

Keep It Clean Has your Mighty Mouse's scroll ball stopped working? Sometimes a quick blast of compressed air can bring it back to life.

ICONS BY PAUL HOWALT; PHOTOGRAPH BY PETER BELANGER

Unstick a Broken Scroll Ball

Q: The scroll ball on my Mighty Mouse keeps breaking. I really like that little scroll ball and would rather fix it than buy a new mouse. Is there any way to pull it apart, clean out the gunk, and put it back together again?

John Boyd

A: Before you go to the trouble of ripping the poor thing apart, let's be sure you've tried the usual solutions. First, flip your Mighty Mouse upside down and rub a water-dampened cloth over the scroll ball, rubbing both horizontally and vertically. With luck, this will loosen the gunk inside that's causing the problem.

If that fails, hold the mouse upside down, press the ball down, and blast a good couple of jets of compressed air into the space between the mouse's top and the depressed ball while moving the ball around (see "Keep It Clean").

If your scroll ball still isn't working, it is possible to pull the poor rodent apart, but it's not easy. You'll need a flat-head screwdriver, an X-Acto knife, Super Glue, and the MacFreak guide you'll find at macworld.com/3355. Take one look at those instructions, and you'll see that this is not the simple operation that cleaning an old Apple ADB mouse was. You must surgically split your Mighty Mouse and then glue the bits back together after you've cleaned its innards. For this reason, I suggest you try my other suggestions a few times first (and put some real effort into them). Then, if the thing still won't work and you're willing to replace it with another mouse if things go awry, give surgery a try.

Have a problem?
Go to the Mac 911 forum (macworld.com/2467) for help with your misbehaving Mac or applications.

Record Multiple Tracks in iChat

Q: I understand that I can record audio chats in Leopard's iChat. But when I experimented with this feature, iChat saved the recording as a single mono AAC file. I'd like to split the recording into separate tracks, one for each person being recorded. Is there a way to do that?

Dwayne Lansing

A: You can do it, but not with iChat alone. You need one more program that you probably already own—Apple's GarageBand (either the '06 or the '08 version). First, initiate the audio chat. Then launch GarageBand, select File: New, and click on Create New Music Project. With the audio chat up and running, click on GarageBand's Record button.

You'll see an alert that asks if you want to record the chat. Indicate that you do by clicking on the appropriate button. Each person participating in the chat gains his or her own real instrument track, labeled with their name, in GarageBand, and the recording begins. Once the chat is recorded, you can do what you like with each track—adjust volume, apply effects, and export individual tracks by muting other tracks.

Note that, unlike iChat's recording feature, this method lets you record the chat without others knowing you're doing it. The honest (and, in some cases, legally required) thing to do is to tell all the chat's participants that you're recording them. In some states—for instance, California and Florida—you're breaking the law when you record people without their consent. See macworld.com/3356 for the Reporters Committee for Freedom of the Press state-by-state guide.

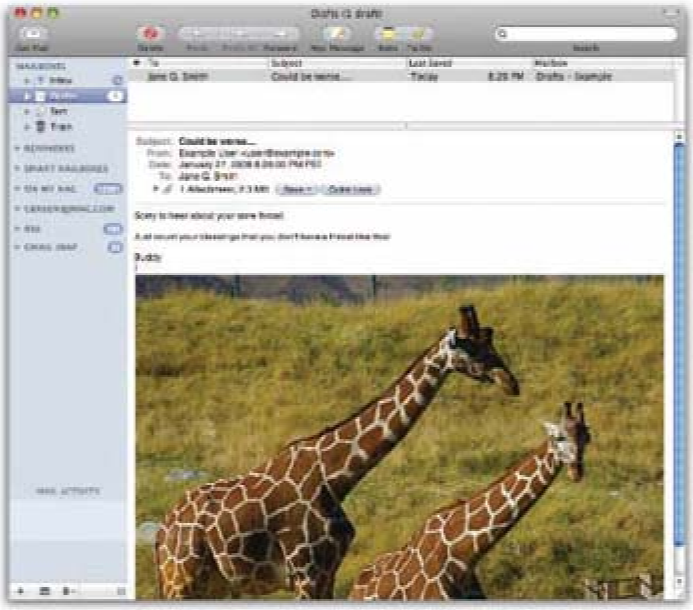
Delete Demonic Drafts

Q: I can't seem to get rid of a nagging message that's sitting in Mail's Drafts mailbox. It stays there despite my attempts to delete it and to rebuild my mailbox. What can I do?

David Birken

A: Quit Apple's Mail and navigate to *your user folder*/Library/Mail. Locate the folder that contains this draft—it might be called something like *POP-yourname@pop.example.com*. Inside you'll find a Drafts.mbox folder. Inside that, you'll see a Messages folder. Within it will be a numbered file with an *.emlx* extension—something like *18391.emlx* (see "Deleting Drafts"). That's your annoying message. Toss it into the Trash.

Now launch Mail. There will likely still be something in the Drafts mailbox. Select it. You shouldn't see any text in the body of the message because you've killed the message. Now delete that entry, select that specific mailbox under Drafts, and choose Mailbox: Rebuild. That should do it.



Deleting Drafts You can manually delete a stubborn draft in Apple's Mail if you know where to find the file.

Bugs & Fixes

BY TED LANDAU

Funky Fonts after Installing Office '08 When you install the $400 Microsoft Office 2008 (www.microsoft.com/mac), it advises you to quit all open programs. Take this advice seriously. I left Safari open while installing, and soon my browser text appeared as if a random-character generator had typed it! To fix this, quit the problem program and relaunch it. This forces it to access Microsoft's updated font versions. If this fails, try deleting font caches using a utility such as Mark Douma's $10 Font Finagler (macworld.com/3358). As a last resort, use the Edit: Resolve Duplicates command in Apple's Font Book (/Applications) to identify and turn off old versions of duplicate Microsoft fonts.

Incorrectly Assigned Office '08 Ownership Several folders and files installed by the Microsoft Office Installer (such as /Library/Fonts/Microsoft, /Library/Application Support/Microsoft, and /Applications/Microsoft Office 2008) install with the wrong ownership privileges. If you share a Mac with others or are connected to a server, someone else could wind up with the authority to delete and replace files in these folders. While Microsoft works on a fix, get a workaround at macworld.com/3359.

Adobe Program Crashes If you've installed Adobe's Version Cue CS3 3.1.0 update (macworld.com/3360), you may find that Creative Suite 3 programs crash whenever you try to save or open documents with them. A damaged VersionCueUI.framework file is the problem. To replace it, download and run the FixVCUIFramework utility from macworld.com/3361.

Logic and GarageBand Crashes Does Apple's Logic Pro, Logic Express, or GarageBand '08 crash when you launch it in Leopard? If you have Celemony's Melodyne 3.X (www.celemony.com) installed, it could be the culprit. Update to version 3.2.2 or later of Melodyne Studio and Melodyne Cre8.

Senior Contributor **Ted Landau** is the founder of MacFixIt (www.macfixit.com) and the author of *Take Control of Troubleshooting Your iPhone* (TidBits Publishing, 2007). Share your problems at bugs@macworld.com or on Macworld.com's Mac 911 forum.

Play Podcasts from Old to New

Q: I just got an 80GB iPod Classic. I know it will play podcasts one after the other instead of going back to the main screen after a podcast ends. Still, even though I put my podcasts in iTunes from the earliest to the latest, when I sync the iPod, the list changes so that the top ones are the most recent and the bottom ones are the oldest. How can I make them play the right way?

Via the Internet

A: Navigate to the iPod's Podcasts screen (the screen that lists all your podcasts rather than an individual podcast's screen), select the podcast you want to listen to (again, something like the Macworld Podcast rather than an individual episode), and press the iPod's Play button. The iPod will play the oldest episode first, then the next oldest, and so on until finally it plays the most recent episode.

If you have an older iPod, this isn't an option because these iPods play just one episode and then return to the Podcasts screen. For these iPods, you can create a smart playlist with conditions that read something like this:

```
Name Contains name of podcast
Play Count is 0
Limit to X Items Selected by Album
```

This smart playlist will offer that podcast's unlistened-to episodes from oldest to newest. Just sync it to your iPod, and you're in business.

Senior Editor **Christopher Breen** is the author of *The iPhone Pocket Guide*, second edition, and *The iPod & iTunes Pocket Guide*, third edition (both Peachpit Press, 2007).

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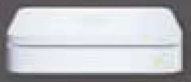

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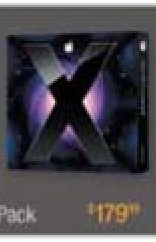

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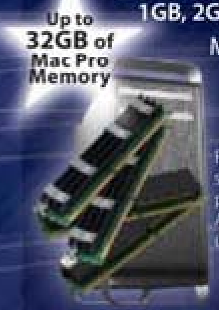

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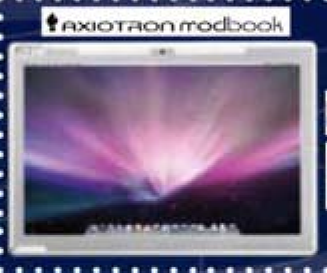

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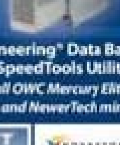

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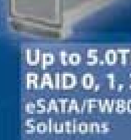

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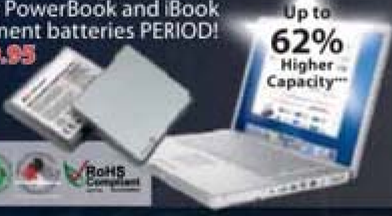

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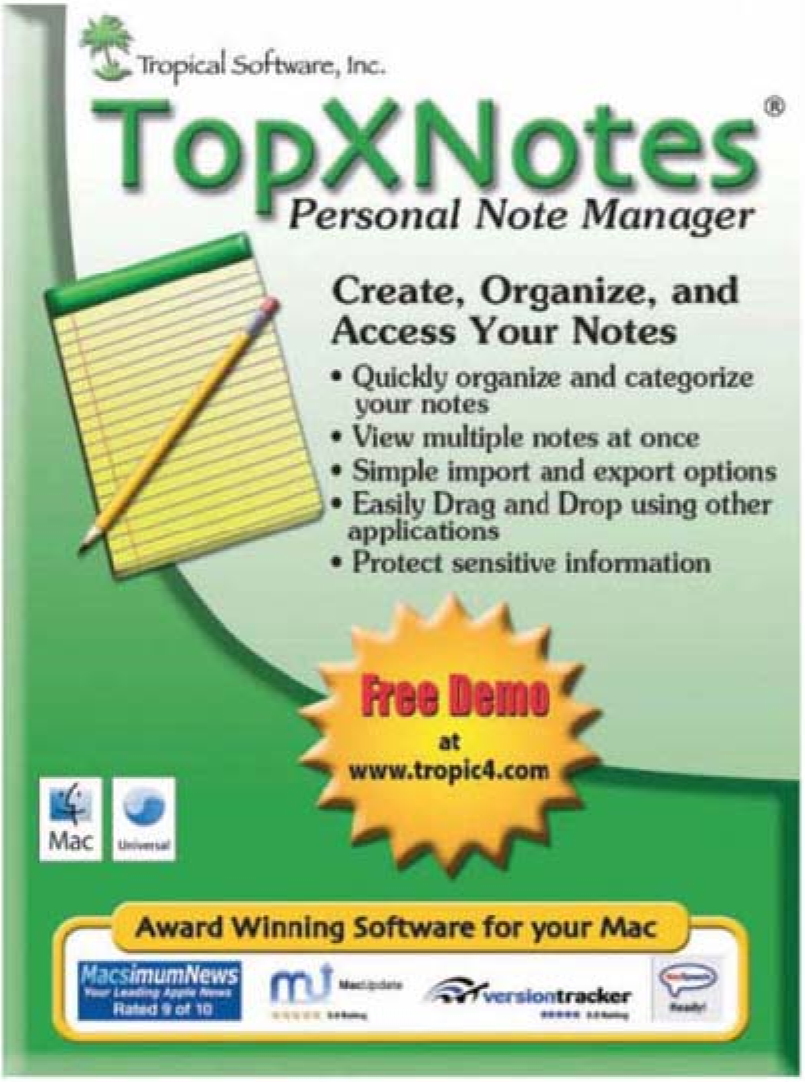

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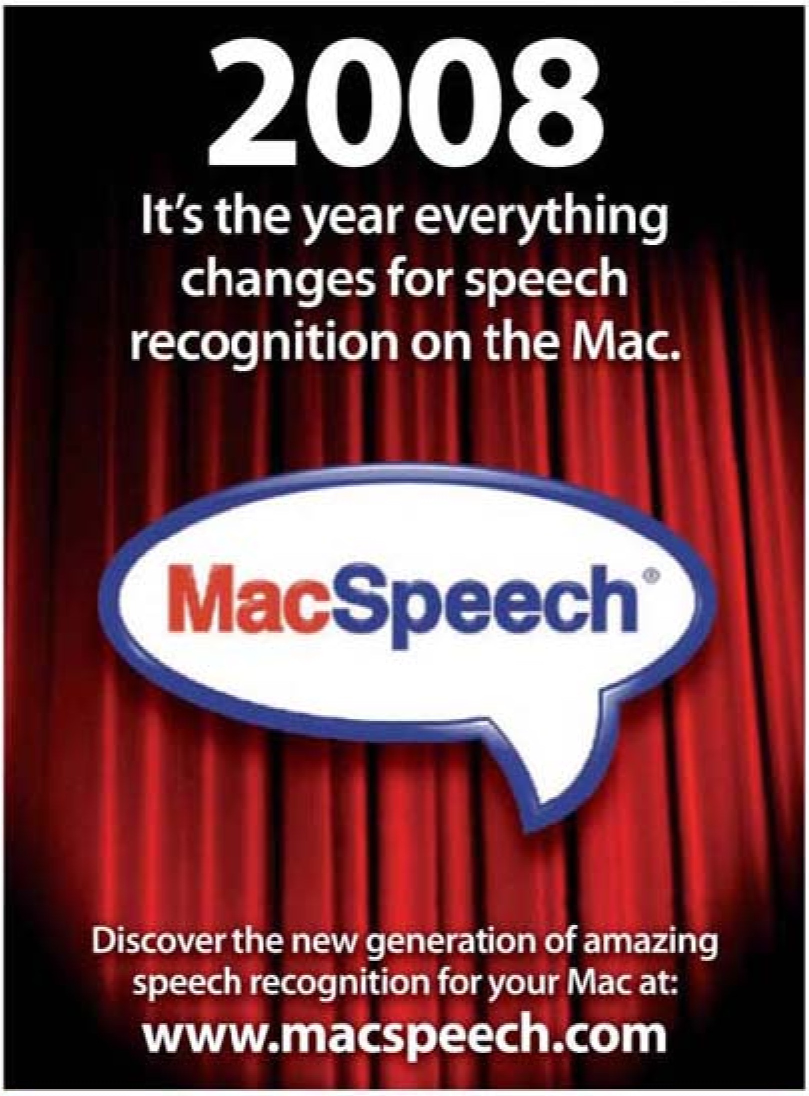

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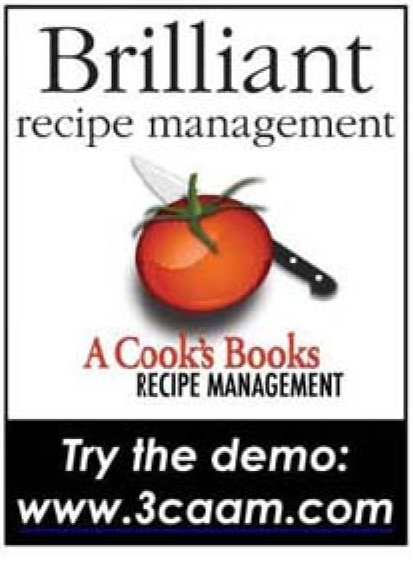

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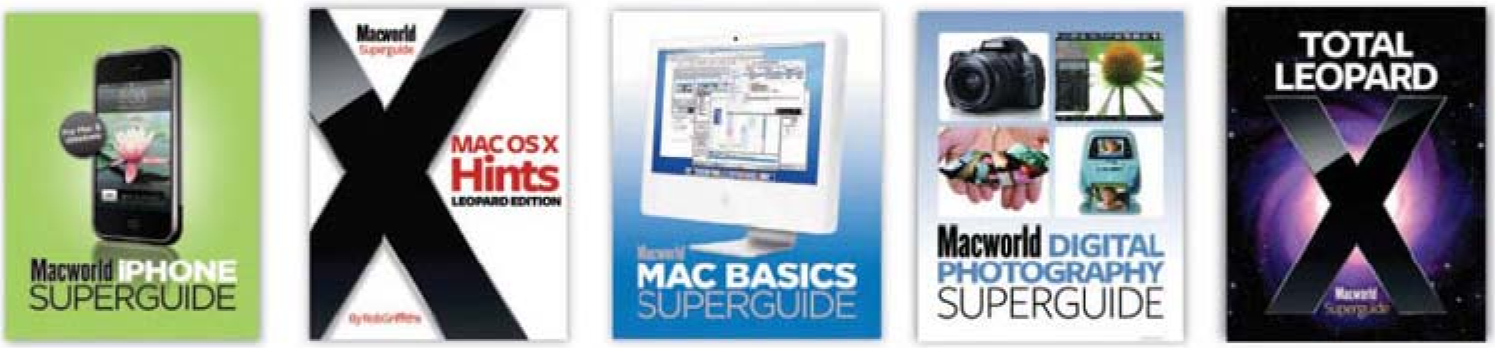
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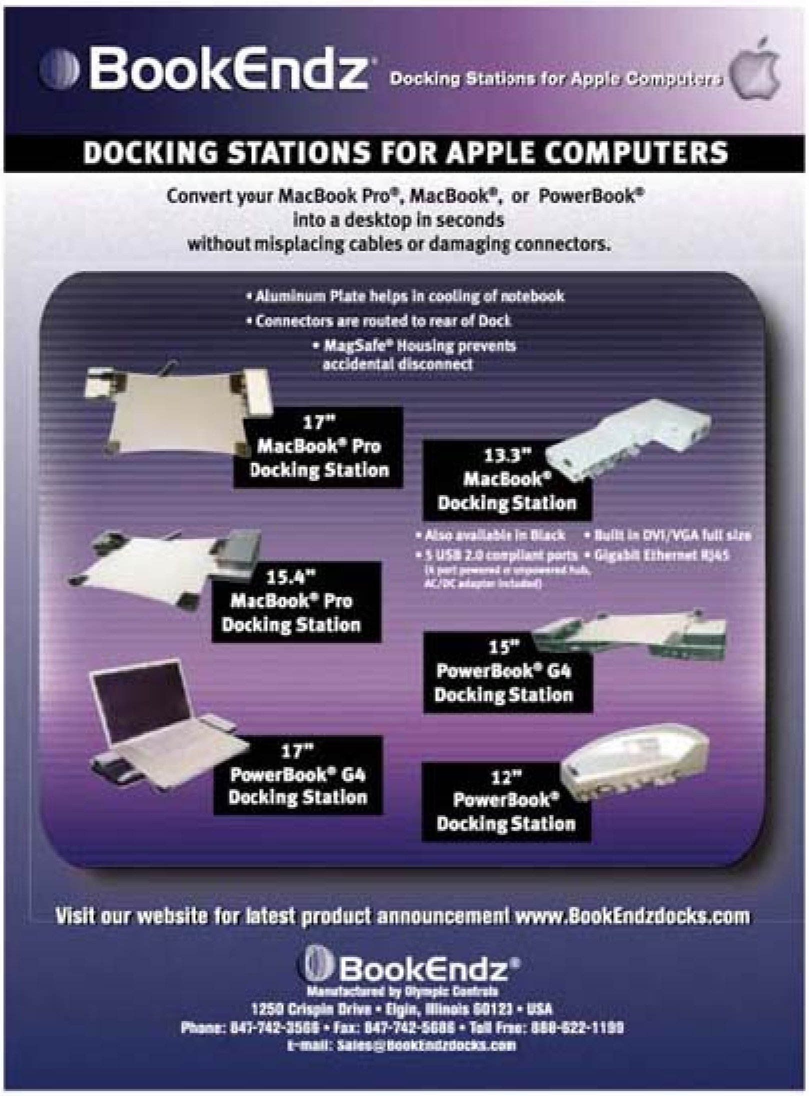

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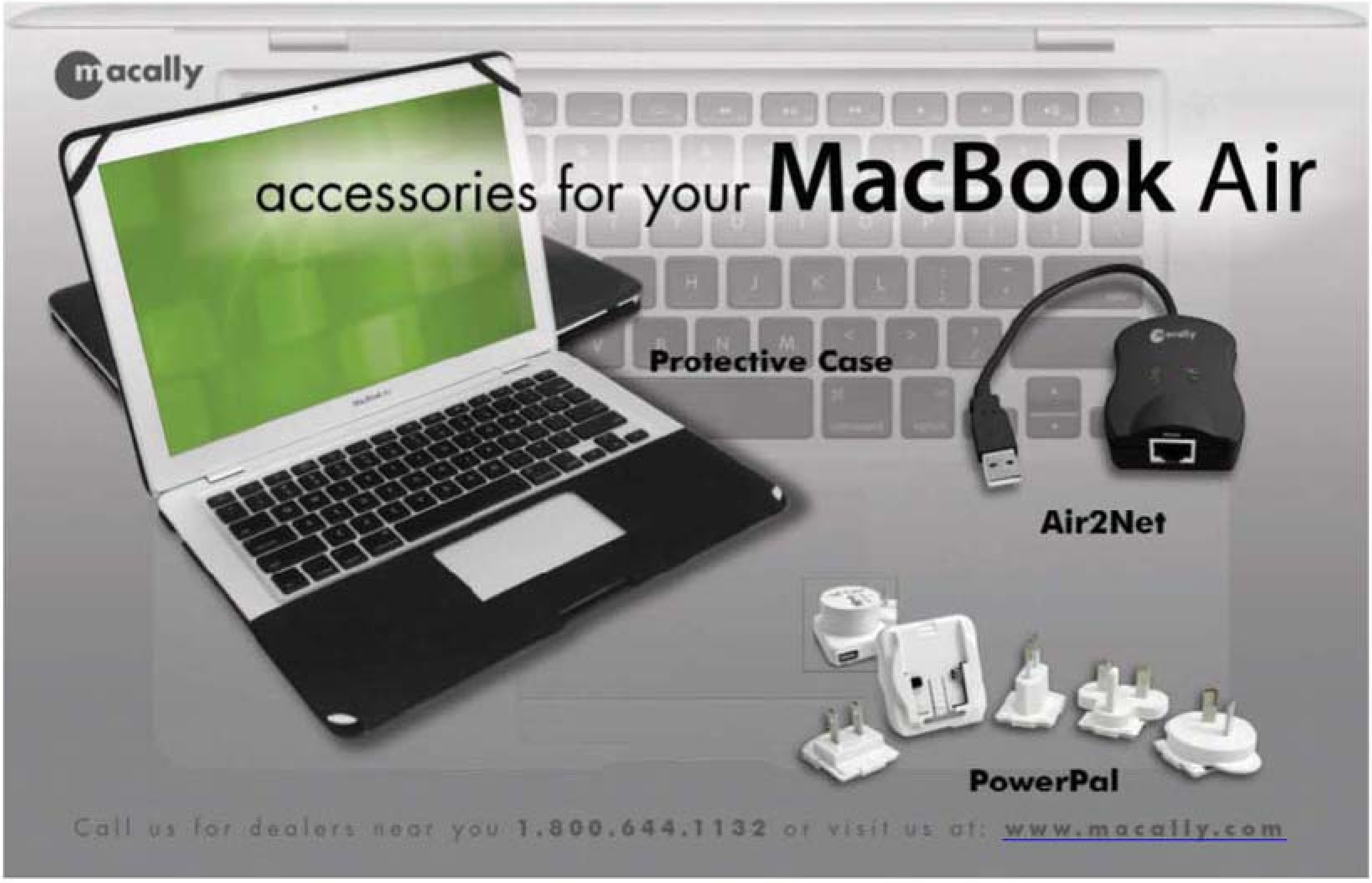

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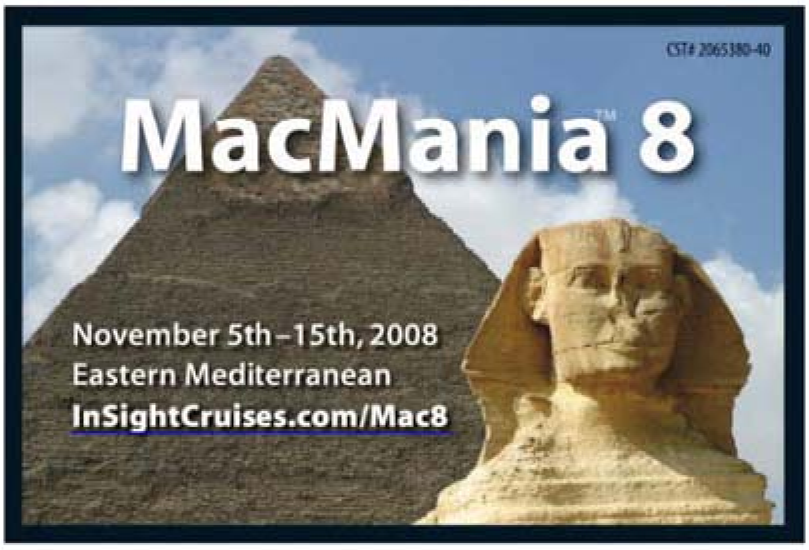

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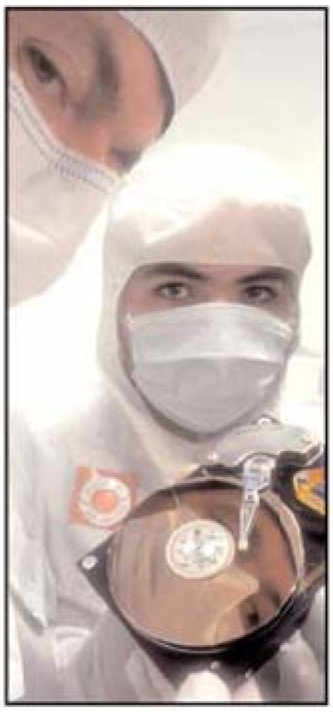

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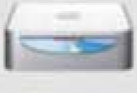

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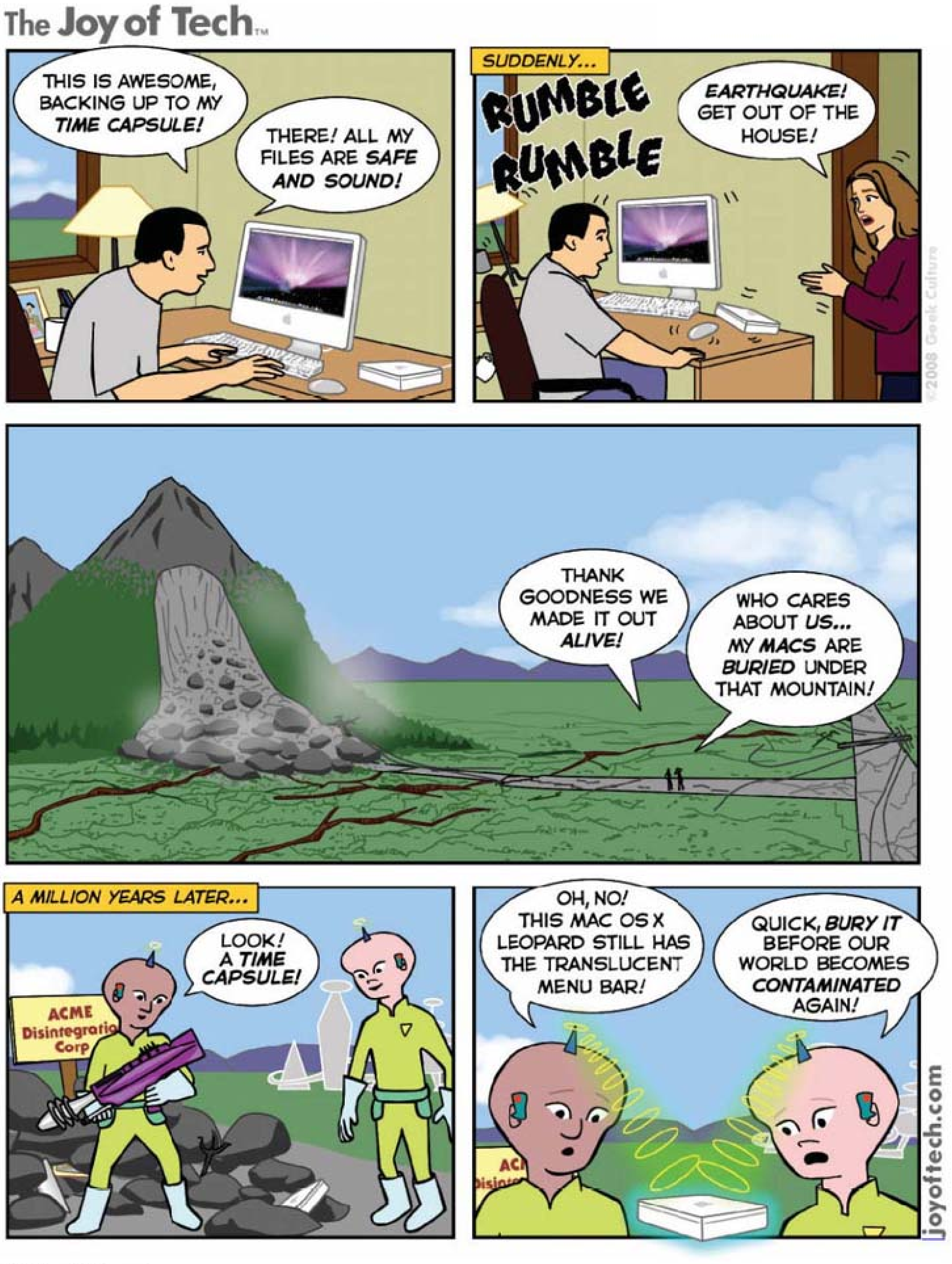
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